

Carderock Division
Naval Surface Warfare Center
Bethesda, Maryland 20084

AD-A286 856



NSWCCD-HD-1048-01 October 1995
Hydromechanics Directorate
Research and Development Report

Global Wave Statistics for Structural Design Assessments

By
Wah T. Lee

NSWCCD-HD-1048-01 Global Wave Statistics for Structural Design Assessments

96-00429



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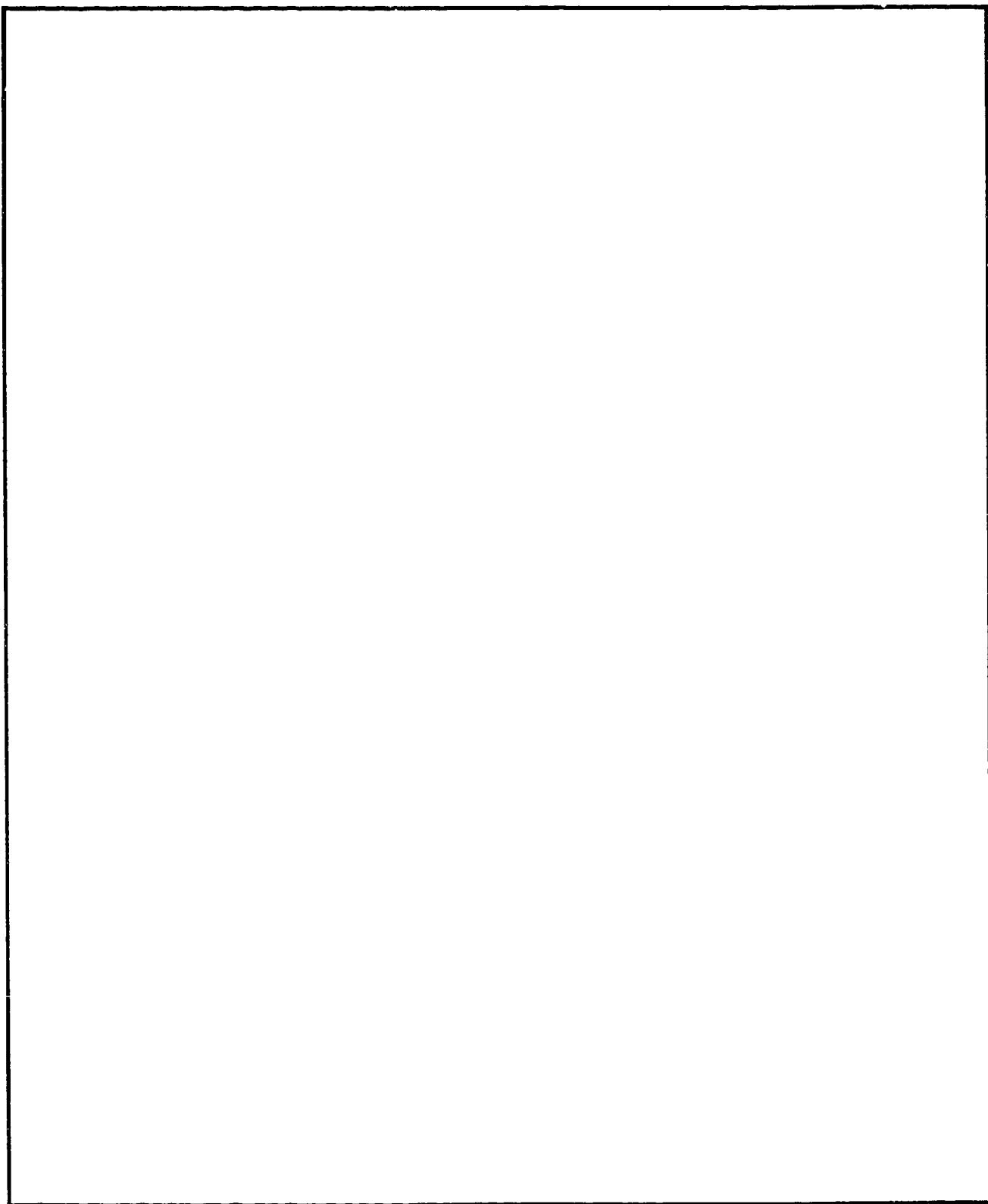
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REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188												
1a. REPORT SECURITY CLASSIFICATION UNCLASSIFIED		1b. RESTRICTIVE MARKINGS													
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION / AVAILABILITY OF REPORT Approved for Public Release, Distribution Unlimited													
2b. DECLASSIFICATION / DOWNGRADING SCHEDULE															
4. PERFORMING ORGANIZATION REPORT NUMBER(S) NSWCCD-HD-1048-01		5. MONITORING ORGANIZATION REPORT NUMBER													
6a. NAME OF PERFORMING ORGANIZATION Carderock Division, Naval Surface Warfare Center		6b. OFFICE SYMBOL Code 5610	7a. NAME OF MONITORING ORGANIZATION												
6c. ADDRESS (City, State, and ZIP code) Bethesda, Maryland 20084-5000		7b. ADDRESS (City, State, and ZIP code)													
8a. NAME OF FUNDING / SPONSORING ORGANIZATION Naval Sea Systems Command		8b. OFFICE SYMBOL SEA 03R11	9. PROCUREMENT INSTRUMENT NUMBER N0002495WR10602												
8c. ADDRESS (City, State, and ZIP code) Washington, D.C. 20362		10. SOURCE OF FUNDING NUMBERS <table border="1"> <tr> <td>PROGRAM ELEMENT NO. 63563N</td> <td>PROJECT NO.</td> <td>TASK NO.</td> <td>WORK UNITS ACCESSION NO.</td> </tr> </table>		PROGRAM ELEMENT NO. 63563N	PROJECT NO.	TASK NO.	WORK UNITS ACCESSION NO.								
PROGRAM ELEMENT NO. 63563N	PROJECT NO.	TASK NO.	WORK UNITS ACCESSION NO.												
11. TITLE (Including Security Classification) Global Wave Statistics for Structural Design Assessments															
12. PERSONAL AUTHOR(S) Wah T. Lee															
13a. TYPE OF REPORT Final	13b. TIME COVERED	14. DATE OF REPORT Oct 1995	15. PAGE COUNT 85												
16. SUPPLEMENTAL NOTATION															
17. COSATI CODES <table border="1"> <tr> <th>FIELD</th> <th>GROUP</th> <th>SUB-GROUP</th> </tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> </table>		FIELD	GROUP	SUB-GROUP										18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number) Littoral Regions, Wave spectra, Significant Wave Height, Modal Wave Period	
FIELD	GROUP	SUB-GROUP													
19. ABSTRACT (Continue on reverse if necessary and identify by block number) Operational areas of interest to the U.S. Navy are dictated by the maritime strategy and have in recent years included Southern Hemisphere and littoral regions. This report is intended to aid in ship design by listing the seasonal distributions of significant wave height and modal wave period data for global open ocean and littoral regions. A short description of the 4 idealized formulations and their applications is also presented.															
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT Unlimited		21. ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED													
22a. NAME OF RESPONSIBLE INDIVIDUAL Wah T. Lee		22b. TELEPHONE (Including Area Code) (301) 227-1192	22c. OFFICE SYMBOL Code 5610												

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CONTENTS

Abstract	1
Administrative Information	1
Introduction	1
Data Presentation	3
Comparison of Wave Data	5
Spectral Families	6
Data File Structure and Description	7
Concluding Remarks	9
Acknowledgments	9
References	25
Appendix A N. Atlantic Region	A-1
Appendix B N. Pacific Region	B-1
Appendix C Southern Hemisphere Region	C-1
Appendix D Coastal Area Region	D-1

FIGURES

1 Map Showing N. Atlantic Region Locations	11
2 Map Showing N. Pacific Region Locations	12

3 Map Showing Southern Hemisphere Region Locations	13
4 Map Showing Coastal Area Region Locations	14
5 Locations of the SOWM Grid Point, the Buoy Station, and the NMI Area off the East Coast of the U.S.	15
6 Comparison of Significant Wave Heights Among SOWM, Buoy, and NMI Data	16
7 Comparison of Modal Wave Periods Among SOWM, Buoy, and NMI Data	17
8 Comparison of Wave Spectra Models and Measured Data	18
9 Measurement Location for Data Used in Comparison of Wave Spectra Models	19

TABLES

1 N. Atlantic Region Locations Used in the Global Wave Statistics Data Base	20
2 N. Pacific Region Locations Used in the Global Wave Statistics Data Base	21
3 Southern Hemisphere Region Locations Used in the Global Wave Statistics Data Base	22
4 Coastal Area Region Locations Used in the Global Wave Statistics Data Base	23
5 Wave Period Bands for the Global Wave Statistics Data Base	24

ABSTRACT

Operational areas of interest to the U.S. Navy are dictated by the maritime strategy and have in recent years included Southern Hemisphere and littoral regions. This report is intended to aid in ship design by listing the seasonal distributions of significant wave height and modal wave period data for global open ocean and littoral regions. A short description of the 4 idealized formulations and their applications is also presented.

ADMINISTRATIVE INFORMATION

The work performed herein was performed by Code 561 of the Hydromechanics Directorate with the Structures and Composites Department (Code 65) of the Survivability, Structures and Materials Directorate under the sponsorship of the Naval Sea System Command (SEA 03R11). This report is submitted in fulfillment of Milestone D2 of Subtask III.C of the Reliability Based Design Criteria for Surface Ship Structures Task under Program Element 63563N and Work Request Number N0002495WR10602. It is identified by Work Unit Number 1-6540-480 at the David Taylor Model Basin (NSWCCD).

INTRODUCTION

Improved operational performance of surface ships is a continuing goal of the U.S. Navy. Since World War II, most operational experience obtained by the Navy has been in mid-latitude environments under relatively moderate conditions. Therefore, it is not surprising that operational performance can be significantly degraded when crewmembers

are forced to operate in northern latitudes which contain higher sea states and longer wave periods. With the increased interest in the Navy's ability to conduct sustained combat operation in all regions of the world, the need has arisen to compile a global sea state probabilities data base for ship designers and operators.

The primary data source is the hindcast data base developed by the U.S. Navy. (References 1 and 2) Briefly, archived wind data are used by Fleet Numerical Oceanography Center to hindcast the wave fields for approximately 1500 locations (grid points) throughout the Northern Hemisphere, see Reference 3, using the Spectral Ocean Wave Model (SOWM). The SOWM was the GSOWM (Global Spectral Ocean Wave Model) and now is the WAM (Wave Model) predecessor. The wind fields are updated at 6-hour intervals over a period of 17 years. Thus, the resulting wave directional spectra are a hindcast time history of wave conditions throughout the Northern Hemisphere over a period of 17 years. The SOWM is best used by statistically averaging wave conditions over a period of years for a specific location and season. The hindcasts generally provide greater occurrences of higher sea states and show fewer occurrences of lower sea states than visual observations. With regard to wave periods, the hindcasts generally indicate longer wave periods for given heights than for visual observations. This is not surprising as it is difficult to observe wave periods at sea and the codes used to record observed occurrences onboard ships are confusing to some observers. Very often the naval architect uses the most probable modal or peak wave period for several varying wave heights. In this work, the modal wave periods, being longer, will cause larger responses to be calculated for the longer ships.

The buoy data are based on the National Oceanic and Atmospheric Administration Data Buoy Center climatic summaries. These summaries provided comprehensive wind and wave data collected for a long period of record from moored buoys and platforms in the near coastal areas adjacent to the US mainland and the deep ocean.

The primary data source for the Southern Hemisphere is the Global Wave Statistics by the National Maritime Institute (NMI) of the United Kingdom. The visual wave data have been processed through a suite of computer programs named "NMIMET." This includes procedures for describing wave statistics from wind statistics based on parametric modeling of their joint probability, and a method for synthesizing directional wave climate from simple wave and wind statistics. (Reference 4) This technique also allows the derivation of reliable statistics of the wave periods by analytical modeling the joint probability distribution of heights and periods, thus avoiding any use of visual observations of wave period, which are known to be very misleading. NMI wave period data in Reference 4 are intended to be equivalent to statistics of the zero crossing period. All wave period data in this report are presented in terms of the modal period, using the assumed relation $T_o = 1.4 * T_z$ for conversion of data available in terms of the zero crossing period. T_o is the modal wave period in seconds and T_z is the zero crossing period in seconds.

DATA PRESENTATION

The seasonal (Annual, Winter, Summer) wave height and modal wave period distributions for the 47 grid points are presented in the appendices. The darkened circles

on Figures 1 and 2 indicate the SOWM grid points included in this work for the North Atlantic and North Pacific, respectively. The open ocean locations identified on Figures 1 and 2 span both oceans from the prevailing westerlies into the polar northeasterlies and are all north of the equator. Additionally, the influences of land mass, currents, continental shelf, and local storm tracks each cause a different climatology variation with longitude. Tables 1 and 2 provide a summary of the points included in Figures 1 and 2.

Figure 3 shows the locations of the Southern Hemisphere wave data derived from the NMI. Figure 4 indicates the various coastal locations throughout the world. Tables 3 and 4 provide a summary of the points included in Figures 3 and 4.

Appendices A and B provide the data base of open ocean wave data derived from the hindcast climatology for the North Atlantic and North Pacific Oceans, respectively. Appendix C provides the Southern Hemisphere NMI wave data, and Appendix D contains the Coastal locations data. The winter season is considered in this report as the period from December through February.

The seasonal significant wave height Tables in the Appendices present the percentage frequency of occurrences for every meter interval and the associated most probable modal wave period for that wave height band. It is noted that the modal periods developed in this work are reflective of the peak of the entire (density) spectrum. Very often this coincides with the peak of the primary direction. The third column in this Table is the wave period range data. The PRANGE data are from the 5th percentile to 95th percentile with a 90 percent confidence.

The next sets of seasonal Tables in the Appendices are the modal wave period distribution data. There are 15 modal wave period bands in the SOWM hindcast data.

The modal period distributions in each wave height band are normalized to 100%. On the other hand, there are only 11 wave period bands in the NMI data. For consistency as well as convenience, it is highly desirable to have a common set of modal wave periods in this data base. Therefore, in order to use the linear interpolation method to expand the NMI data wave period bands to match those in the SOWM data base, it has been assumed that the NMI data are evenly distributed within each bandwidth. Table 5 shows the 11 NMI data and the corresponding 15 SOWM data wave period bands. To convert the first wave period band of the NMI data into the SOWM format, the percentage of occurrences in the <5.6 sec band of the NMI must evenly divide into the two corresponding SOWM wave period bands.

COMPARISON OF WAVE DATA

The primary purpose of this report is to provide the ship designer with the necessary data base to conduct rational reliability based structural design assessments. This section presents the comparison of significant wave heights and modal wave periods among the SOWM, Buoy, and NMI data. Figure 5 identifies the SOWM grid point, the Buoy station, and the NMI area off the east coast of the U.S. Figures 6 and 7 show the typical annual exceedance significant wave heights and modal wave periods from the three sources. In general, the correlation among the three sources is fairly good though the NMI data are broader than the other two. In particular, the NMI wave height distributions have higher probabilities for higher wave heights than other two sources. This is due, in part, to larger open ocean area in the NMI data base.

SPECTRAL FAMILIES

Among the various statistical tools to describe the wave field, spectral analysis is the most effective and convenient means. The SOWM and buoy spectra have no inherent biases due to spectral shape and all shapes are sampled. However, it is prohibitively expensive and time consuming to use this large set of spectra for seakeeping performance analysis. This has led to the use of empirical and mathematically derived spectra as a standard tool, even though the idealized spectra have a limited range of applications and may not be realistic in certain situations. Spectra from 4 idealized formulations have been generated for comparison with a typical buoy spectrum from the Kings Bay area. All spectra used the wave statistics in the buoy spectrum that have a significant wave height of 7.8 ft (2.4 M) and modal wave period of 7.1 sec. Figure 8 shows the comparison of idealized spectra with buoy derived point spectrum. A short description of the 4 idealized formulations is given below. Figure 9 shows a map of the Kings Bay area.

Utilizing the measured wave spectra from the North Atlantic, Bretschneider derived the well known two-parameter Bretschneider spectrum which is applicable to fully developed, as well as the usual growing and decaying seas that persist most of the time throughout the world oceans.

The JONSWAP spectrum formulation is developed for fetch-limited North Sea conditions which is fairly similar to the Gulf of Mexico area. When the peakedness parameter equals to 1, the JONSWAP spectrum reduces to the Bretschneider formulation.

Based on the conclusion of the theoretical study on the JONSWAP project and some laboratory results, the Wallops spectrum is derived with the properties of variable

bandwidth and correct energy content. One novel feature of the Wallops spectrum is the possibility of using remotely sensed data as an input directly. Wallops' spectra represent the less common fully developed as well as the usual partially developed seas that persist most of the time throughout the world oceans. When the slope parameter "m" in the Wallops spectrum decreases to the neighborhood of 5, then the Wallops model will reduce exactly to the Bretschneider spectrum.

Ochi's six-parameter spectrum, based on the statistical analysis of 800 spectra measured in the North Atlantic ocean, has been traditionally used to model the multiple peaks' spectra associated with storm seas. In the derivation of the six-parameter spectrum, the spectrum is decomposed into two parts, one representing the low frequency components and the other the high frequency components of the wave energy. When the shape limit equals to one and with only one component of the spectrum, the three-parameter spectrum will reduce exactly to the Bretschneider spectrum.

DATA FILE STRUCTURE AND DESCRIPTION

The 3.5" floppy disk included in this report contains all the data base files. There are two files for each ocean region. All files are in ASCII format. The header information included for modal wave period distributions file is the Grid Point, ocean, and season. Data are listed as from left to right and top to bottom starting with smallest wave height or wave period value to the largest. All wave period data are presented or converted to the SOWM spectral modal period bands with center periods of 3.2, 4.8, 6.3, 7.5, 8.6, 9.7, 10.9, 12.4, 13.8, 15, 16.4, 18, 20, 22.5, and 25.7 seconds. Since the SOWM data in

References 1 and 2 are rounded off to the nearest 1 percent, some arbitrary but systematic small values have been assigned to those that show occurrences but contain less than 1 percent of the total data. Furthermore, in order for the total occurrence to be exactly 100 percent, the undetermined wave period data must be distributed evenly at that wave height band. The significant wave height data are presented at 1 meter increments except at the 8-10 meter interval.

The names of the files for the 4 ocean regions are as follows:

Region	Name of File	Type of Data
North Atlantic	NATLWH.DAT	N. Atlantic Significant Wave Height Distributions
	NATLPD.DAT	N. Atlantic Modal Wave Period Distributions
North Pacific	NPACWH.DAT	N. Pacific Significant Wave Height Distributions
	NPACPD.DAT	N. Pacific Modal Wave Period Distributions
S. Hemisphere	SHEMWH.DAT	S. Hemisphere Significant Wave Height Distributions
	SHEMPD.DAT	S. Hemisphere Modal Wave Period Distributions
Coastal Area	CAWH.DAT	Coastal Area Significant Wave Height Distributions
	CAPD.DAT	Coastal Area Modal Wave Period Distributions

CONCLUDING REMARKS

This report intends to aid in ship design by listing the seasonal distributions of significant wave height and wave period data for global open ocean and littoral regions. A comparison among the SOWM, Buoy, and NMI data indicates that the correlation among the three sources is fairly good though the NMI data are broader than the other two. A short description of the 4 idealized formulations and their applications is also presented. As the Navy further refines the emerging ship performance design practice, this report will become useful in systems integration and performance analyses.

ACKNOWLEDGMENTS

The author gratefully acknowledges the continuing technical support, assistance, and consultation of Mr. Paul Hess and Mr. Jerome Sikora of the Survivability, Structures and Materials Directorate, in developing the global wave statistics data presented herein. Additionally, the comments and suggestions of Mr. Allen Engle of NAVSEA is appreciated.

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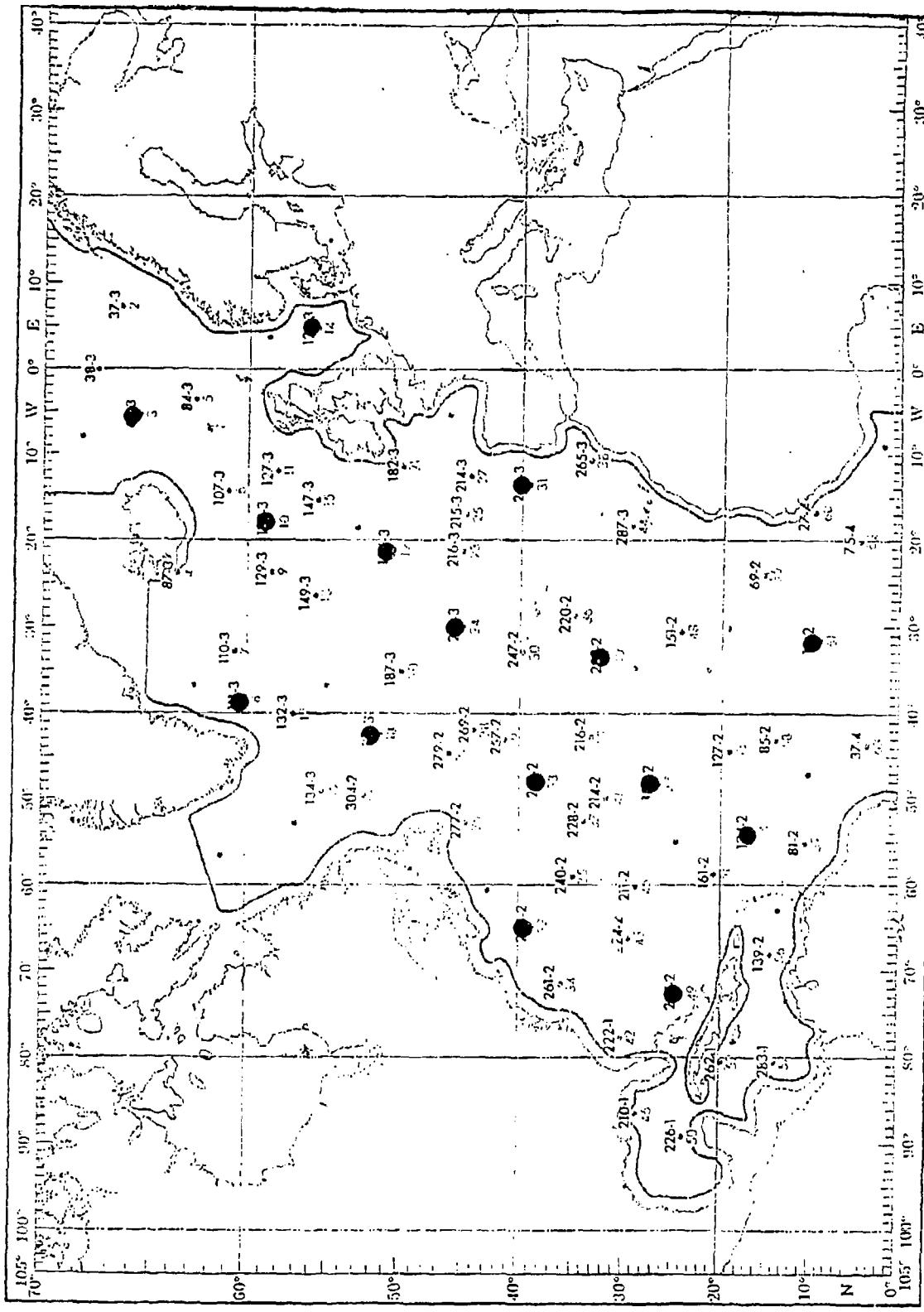


Figure 1 - Map Showing N. Atlantic Region Locations.

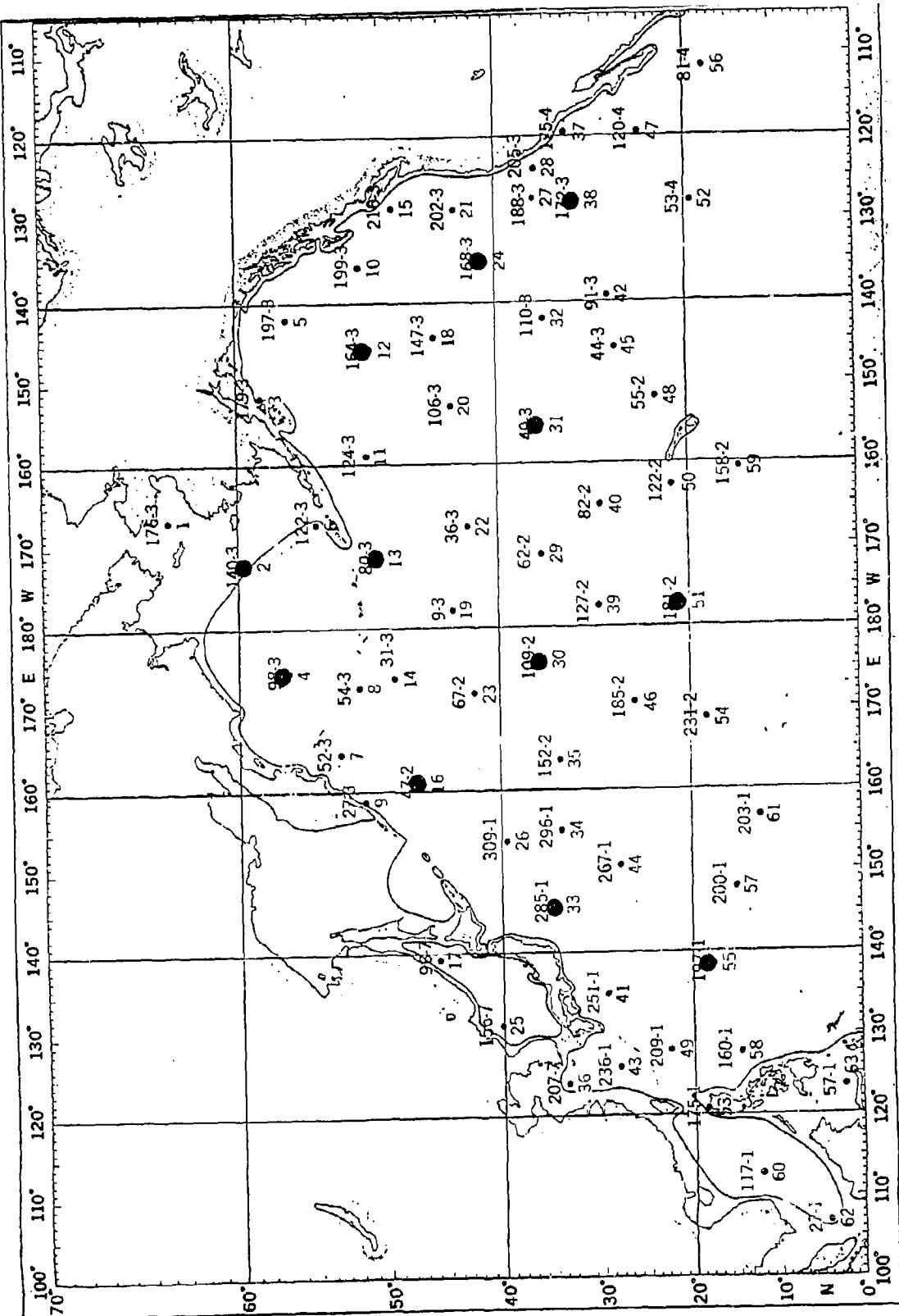


Figure 2 - Map Showing N. Pacific Region Locations.

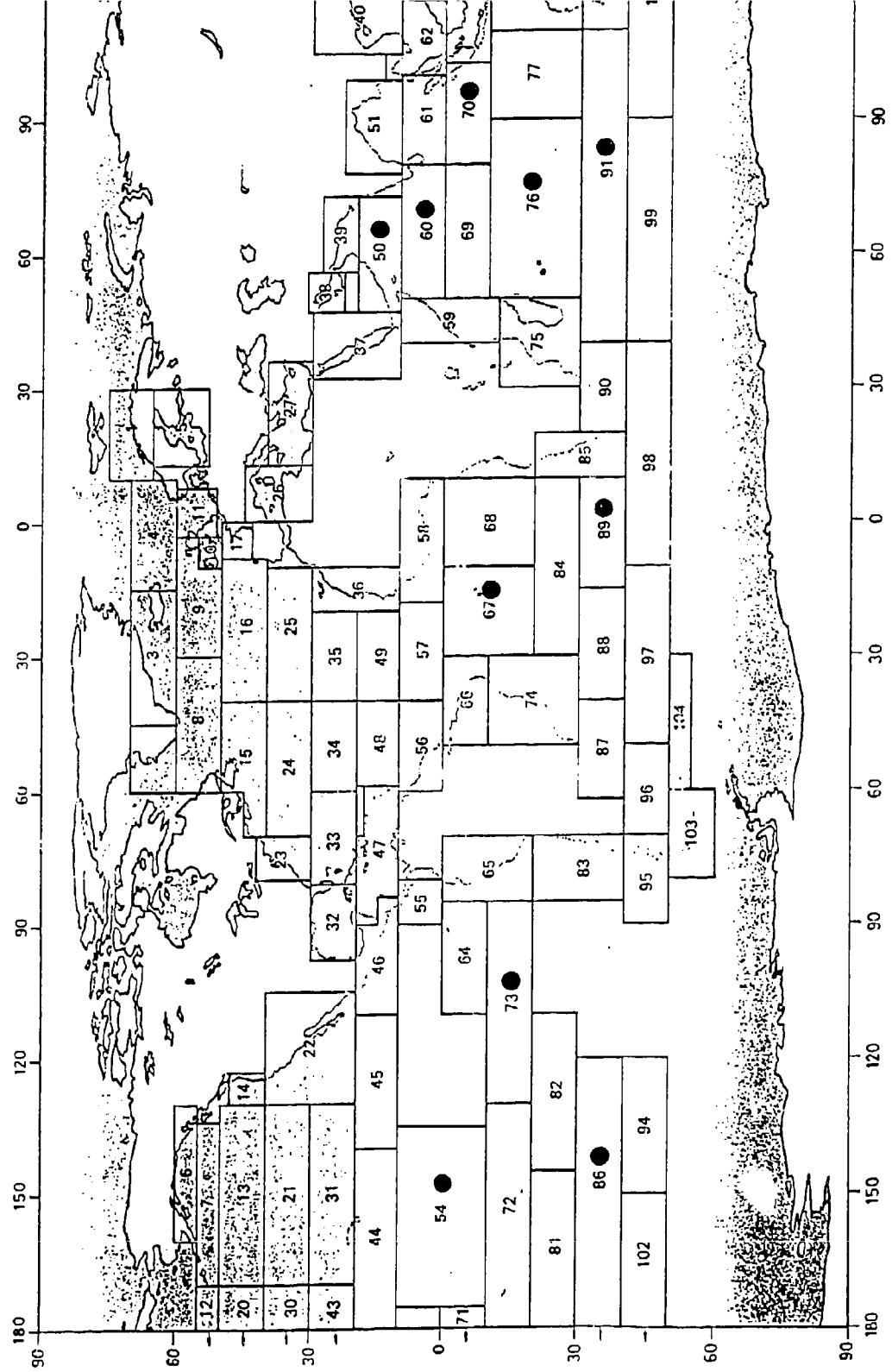


Figure 3 - Map Showing Southern Hemisphere Region Locations.

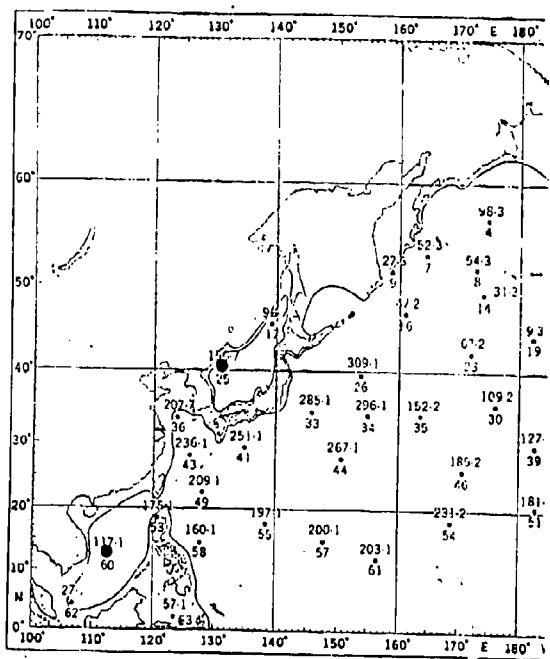
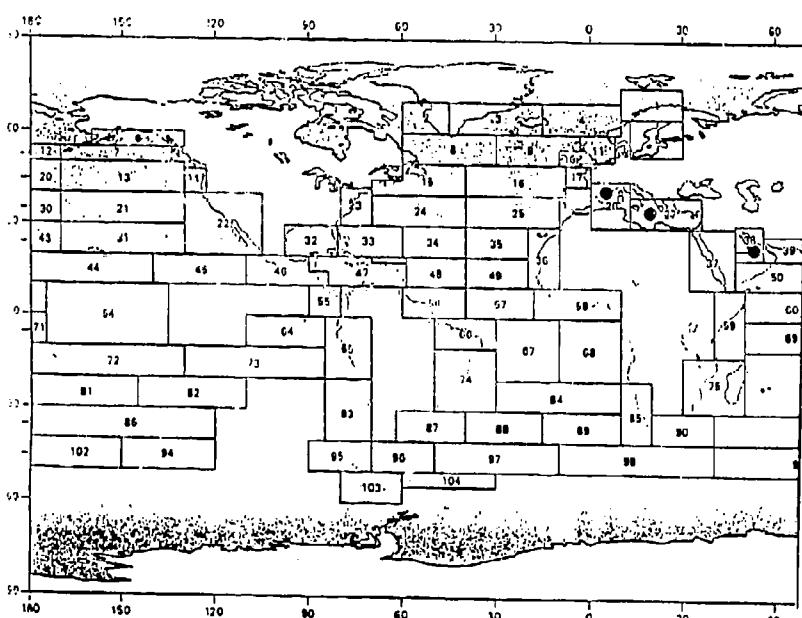
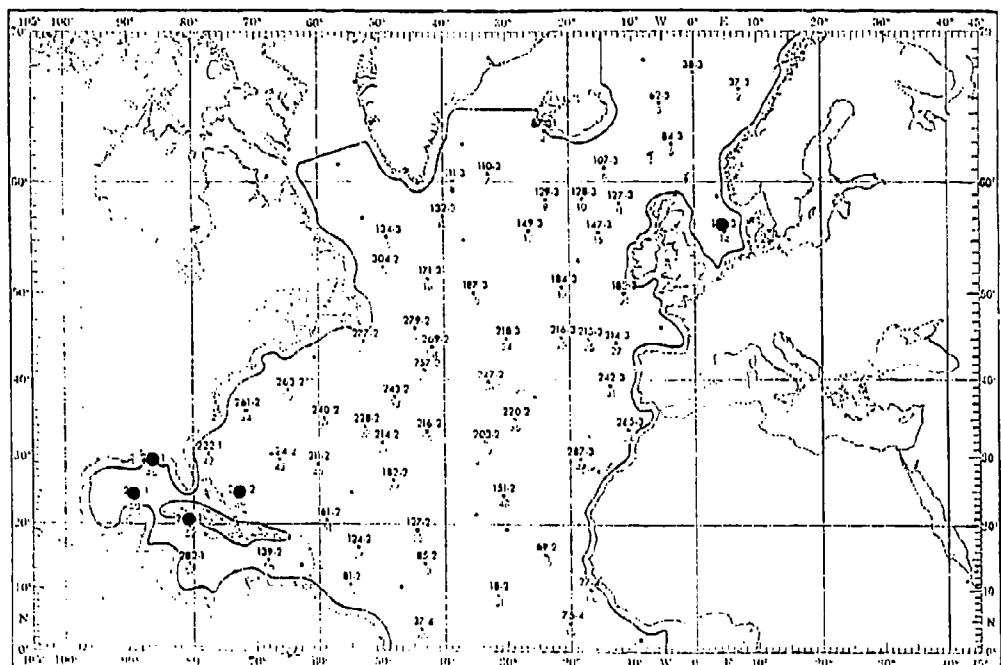


Figure 4 - Map Showing Coastal Area Region Locations.

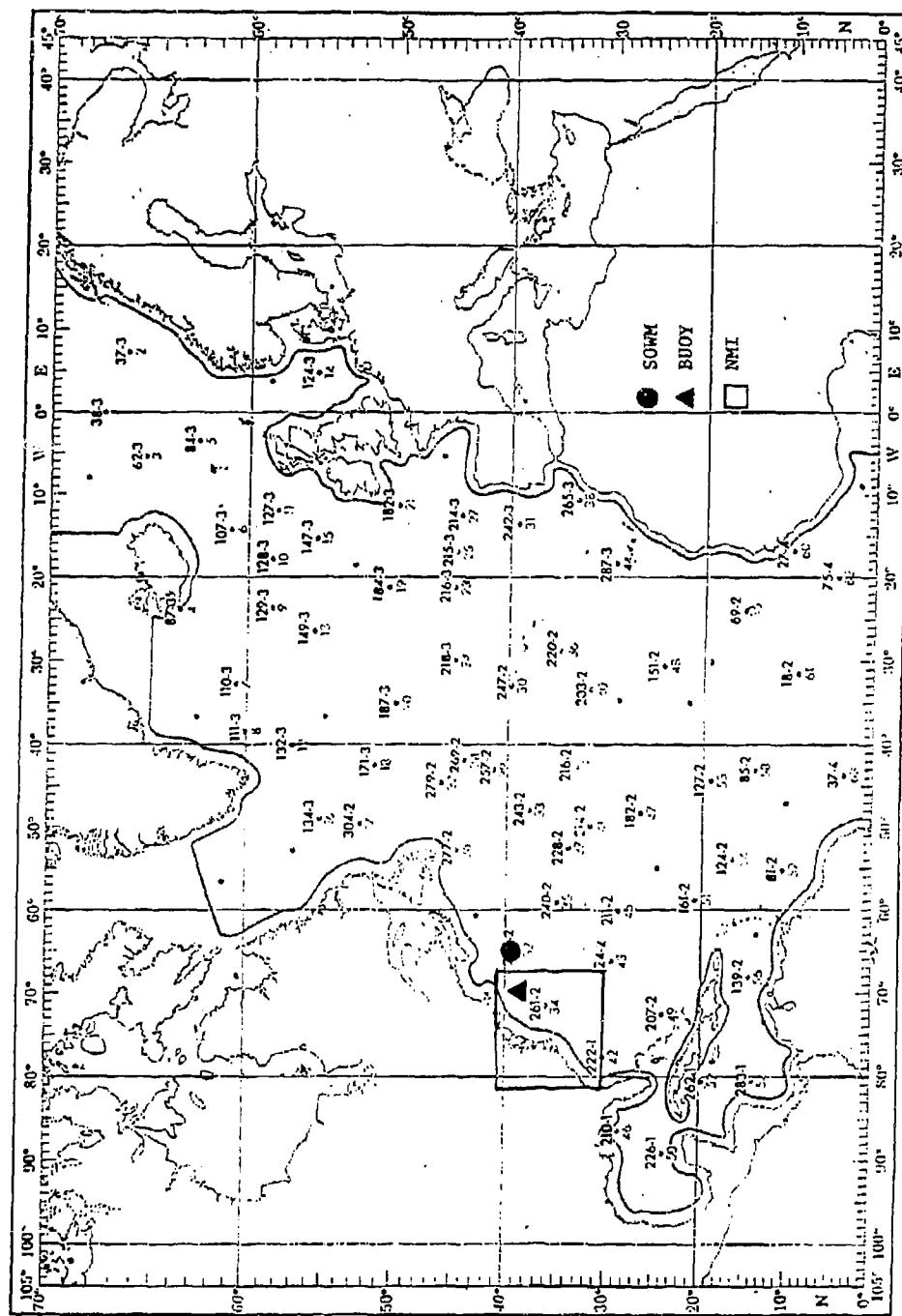


Figure 5 - Locations of the SOWM Grid Point, the Buoy Station, and the NMI Area off the East Coast of the U.S.

SIGNIFICANT WAVE HEIGHTS COMPARISON

EAST COAST - ANNUAL DISTRIBUTIONS

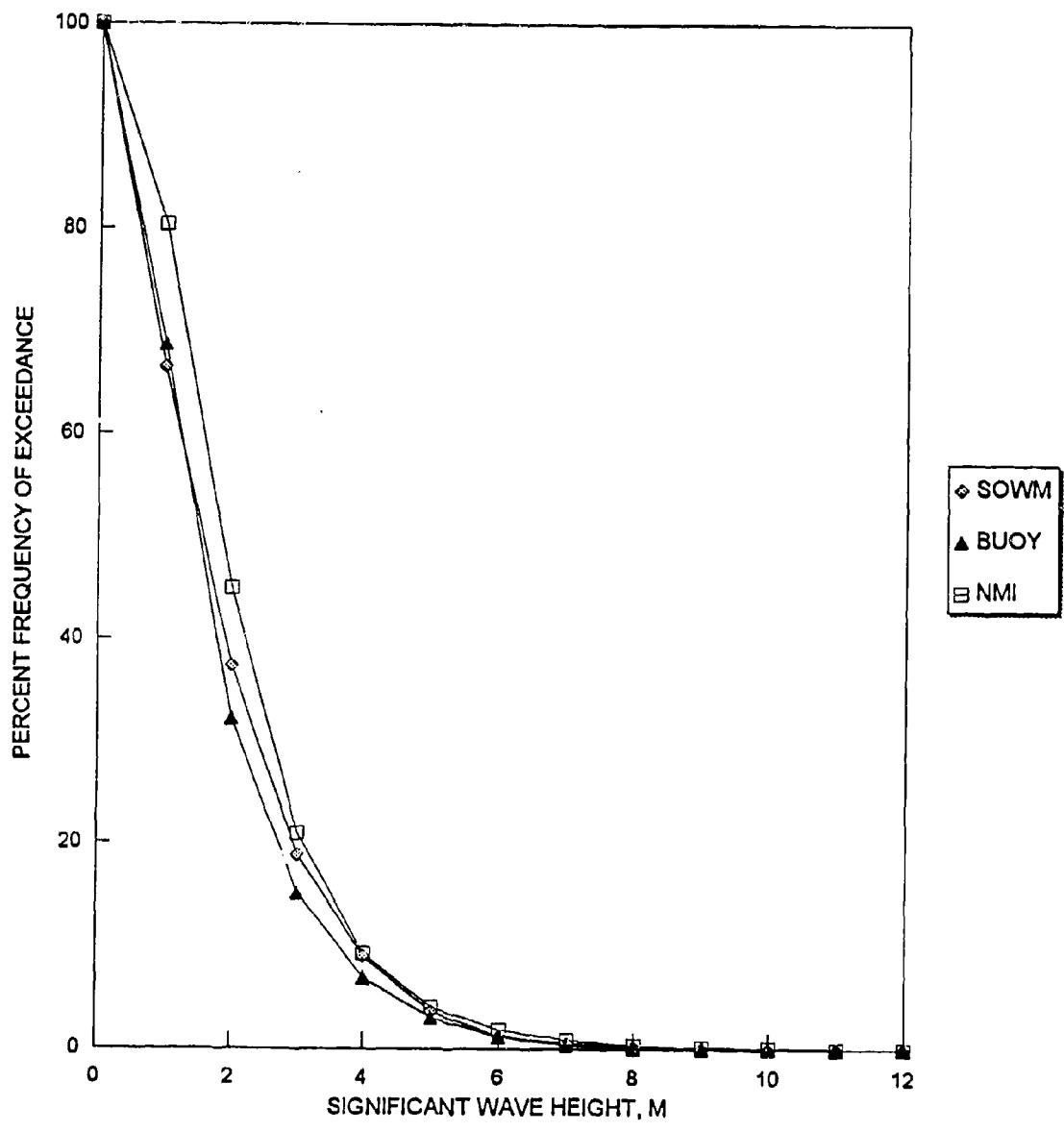


Figure 6 - Comparison of Significant Wave Heights Among SOWM, Buoy, and NMI Data.

MODAL WAVE PERIODS COMPARISON

EAST COAST - ANNUAL DISTRIBUTIONS

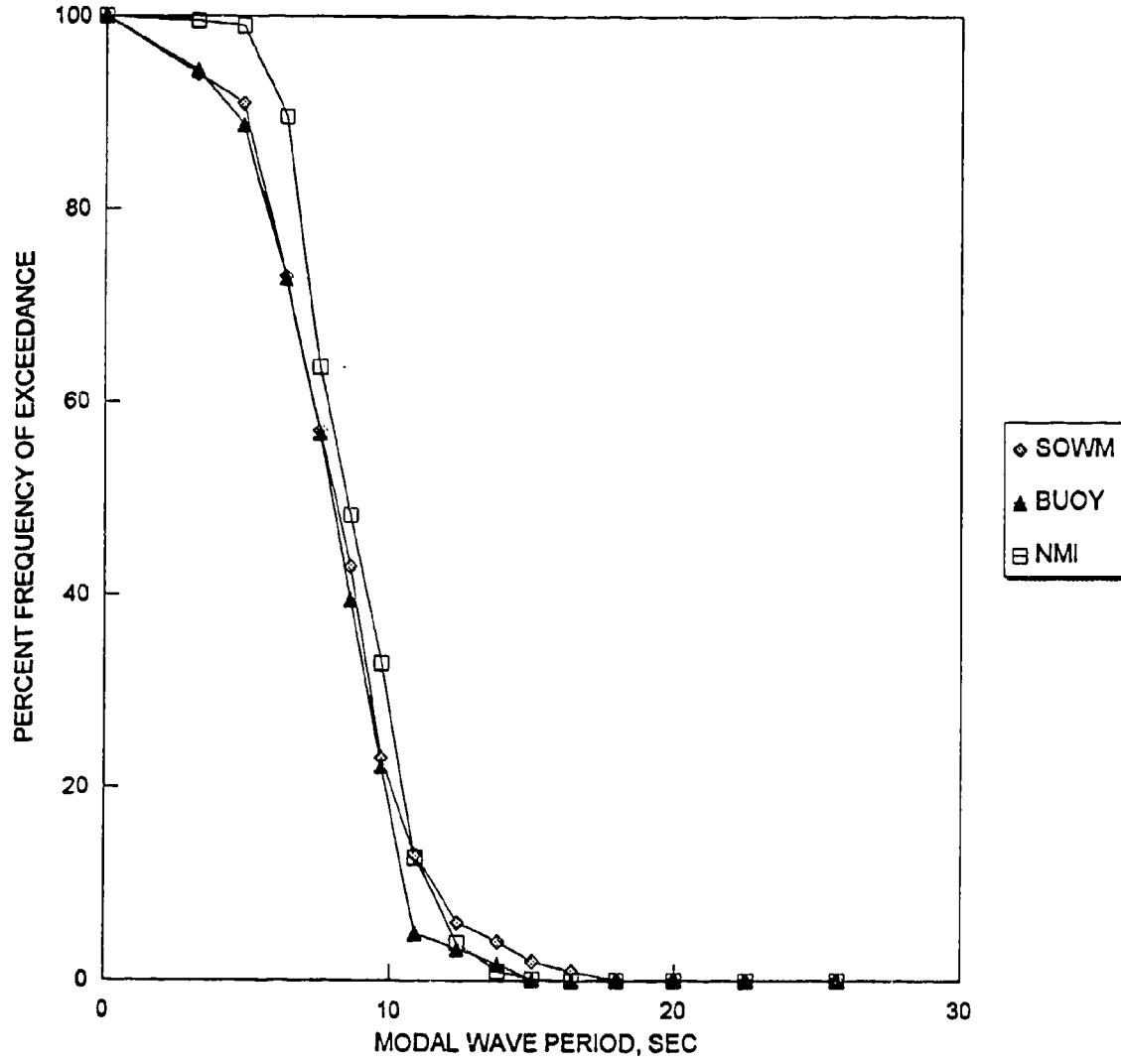


Figure 7 - Comparison of Modal Wave Periods Among SOWM, Buoy, and NMI Data.

SPECTRA COMPARISON

SIGNIFICANT HEIGHT = 7.8 FT (2.4 M), MODAL PERIOD = 7.1 SEC

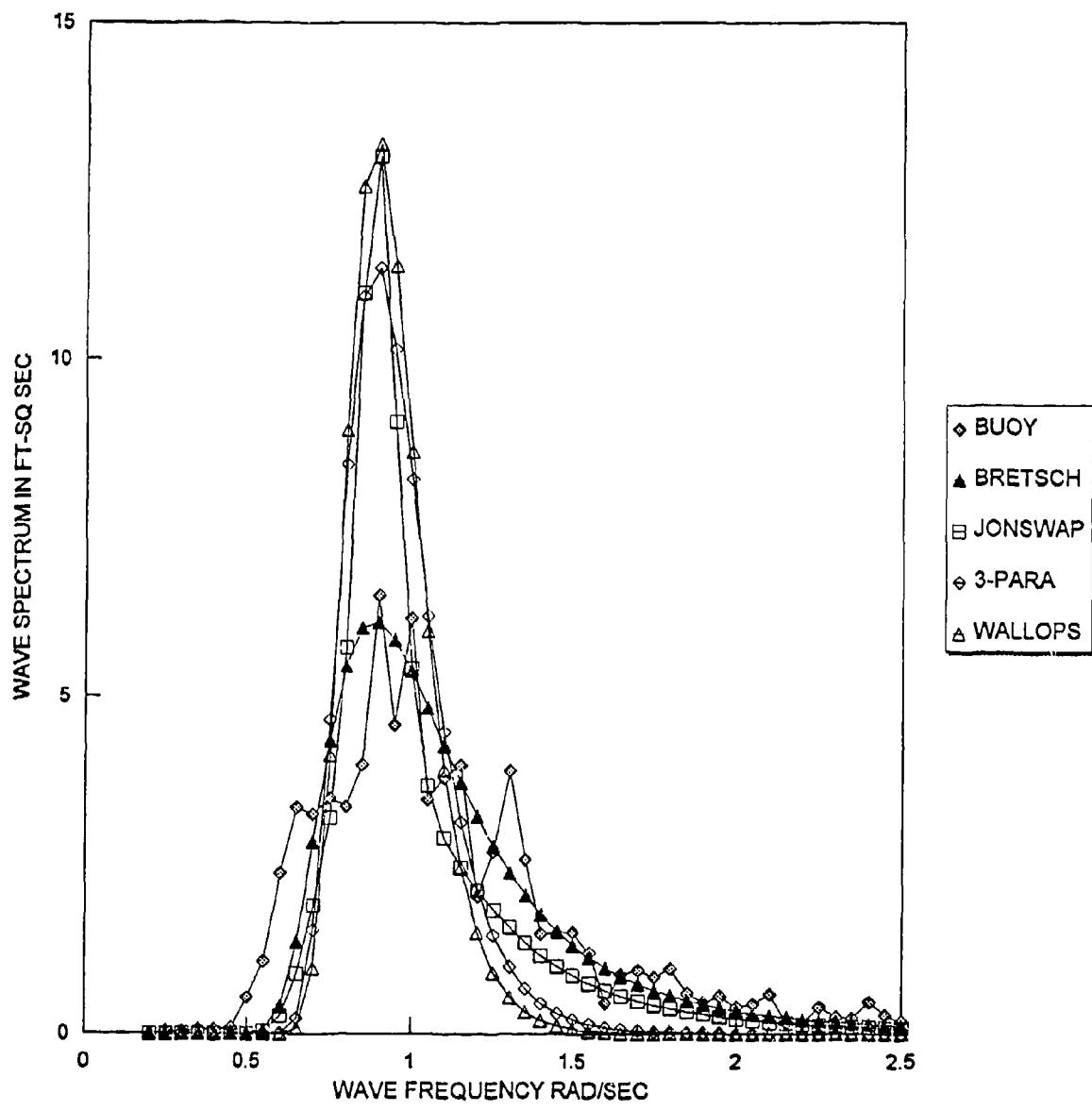


Figure 8 - Comparison of Wave Spectra Models and Measured Data.

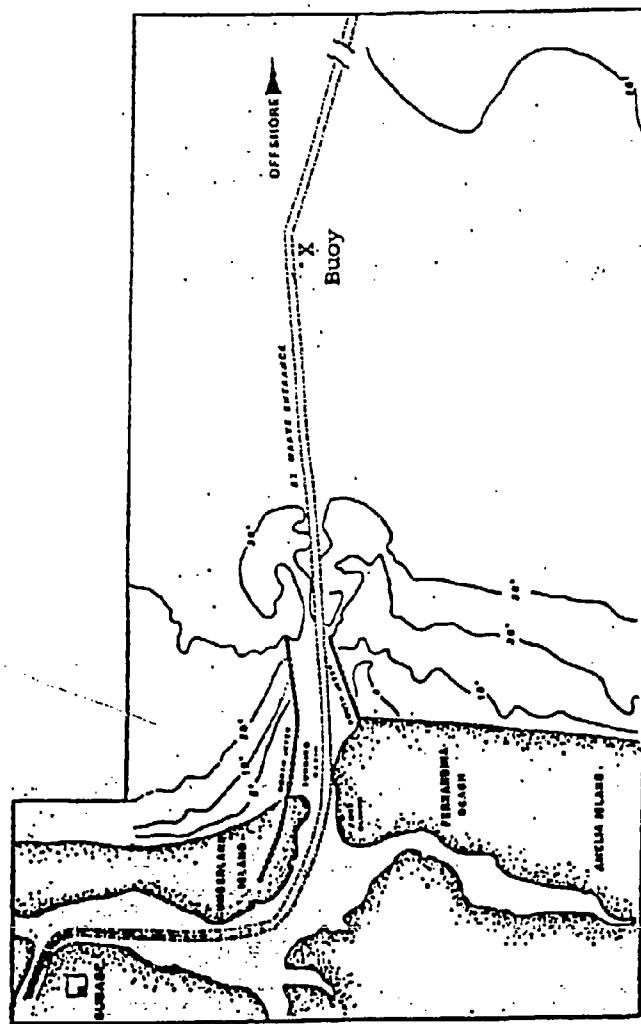
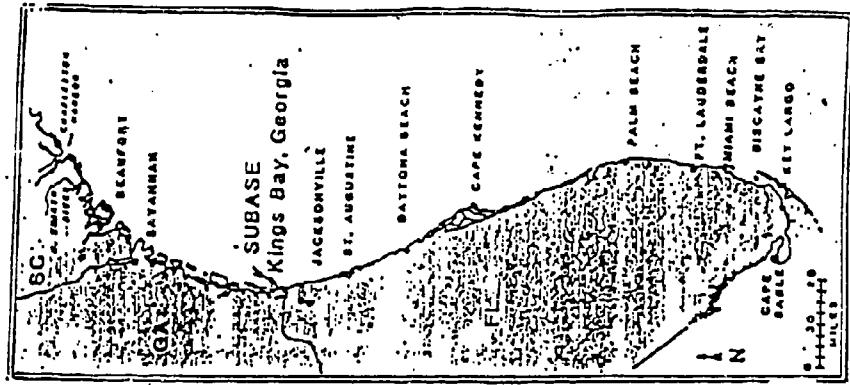


Figure 9 - Measurement Location for Data Used in Comparison of Wave Spectra Models.

TABLE 1 - N. ATLANTIC REGION LOCATIONS USED IN THE GLOBAL WAVE STATISTICS DATA BASE.

GRID POINT	LATITUDE	LONGITUDE
3	65.7 N	5.8 W
8	60.1 N	38.7 W
10	58.6 N	18.2 W
14	55.9 N	4.4 E
18	51.5 N	42.7 W
19	50.6 N	21.5 W
24	45.1 N	30.2 W
31	39.3 N	13.9 W
32	38.8 N	65.1 W
33	37.9 N	48.2 W
40	32.0 N	33.7 W
47	26.7 N	48.5 W
49	24.2 N	72.8 W
54	16.7 N	54.2 W
61	9.2 N	31.9 W

TABLE 2 - N. PACIFIC REGION LOCATIONS USED IN THE GLOBAL WAVE STATISTICS DATA BASE.

GRID POINT	LATITUDE	LONGITUDE
2	59.4 N	172.0 W
4	56.8 N	174.8 W
12	50.9 N	145.6 W
13	50.3 N	171.3 W
16	47.1 N	161.2 E
24	41.0 N	134.9 W
30	35.7 N	176.1 E
31	35.6 N	155.2 W
33	34.6 N	145.9 E
38	31.5 N	127.7 W
51	20.5 N	177.1 W
55	17.6 N	138.5 E

TABLE 3 - SOUTHERN HEMISPHERE REGION LOCATIONS USED IN THE
GLOBAL WAVE STATISTICS DATA BASE.

GRID POINT	LATITUDE	LONGITUDE
50	15.0 N	60.0 E
54	0.0 S	155.0 W
60	5.0 N	65.0 E
67	10.0 S	20.0 W
70	5.0 S	95.0 E
73	15.0 S	105.0 W
76	20.0 S	70.0 E
86	35.0 S	150.0 W
89	35.0 S	5.0 W
91	35.0 S	70.0 E

TABLE 4 - COASTAL REGION LOCATIONS USED IN THE GLOBAL WAVE STATISTICS DATA BASE.

AREA	GRID POINT	LATITUDE	LONGITUDE
WESTERN MEDITERRANEAN	26	40 N	8 E
EASTERN MEDITERRANEAN	27	35 N	25 E
PERSIAN GULF	38	27 N	50 E
NORTH SEA	14	55.9 N	4.4 E
CUBA / HAITI	49	24.4 N	72.8 W
CUBA / HAITI	52	19.9 N	80.8 W
GULF OF MEXICO	46	28.8 N	86.7 W
GULF OF MEXICO	50	24 N	89.4 W
SEA OF JAPAN	25	40.2 N	131.2 E
SOUTH CHINA SEA	60	12.2 N	112.6 E

TABLE 5 - WAVE PERIOD BANDS FOR THE GLOBAL WAVE STATISTICS DATA BASE.

Global Wave Statistics	SOWM Wave Period
Wave Period Range (sec)	(sec)
< 5.6	3.2 4.8
5.6-7	6.3
7-8.4	7.5
8.4-9.8	8.6 9.7
9.8-11.2	10.9
11.2-12.6	12.4
12.6-14	13.8
14-15.4	15
15.4-16.8	16.4
16.8-18.2	18
>18.2	20 22.5 25.7

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APPENDIX A

N. ATLANTIC REGION

GP 3 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	4.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	6.83	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	20.49	23.14	4.11	2.42	0.00	0.00	0.00	0.00	0.00
7.50	7.97	15.28	27.31	3.96	0.00	0.00	0.00	0.00	0.00
8.60	17.39	22.22	26.13	24.66	2.97	0.00	0.00	0.00	0.00
9.70	7.97	10.19	14.37	28.25	20.42	4.65	0.00	0.00	0.00
10.90	15.94	10.19	9.58	16.95	34.04	23.24	3.82	3.41	0.00
12.40	6.83	4.37	4.11	4.84	17.51	39.84	43.64	14.61	4.19
13.80	7.36	4.70	4.42	5.22	6.28	10.73	23.50	31.48	13.54
15.00	2.21	2.35	4.42	5.22	6.28	10.73	11.75	31.48	45.14
16.40	1.28	1.63	3.83	4.52	5.45	4.65	8.15	10.91	19.56
18.00	0.53	1.02	0.96	1.88	4.54	3.10	5.09	4.55	9.78
20.00	0.43	0.56	0.52	1.23	1.49	1.90	2.78	1.86	5.34
22.50	0.00	0.00	0.24	0.85	1.02	1.16	1.27	1.70	2.45
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 3 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.94	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	19.68	8.33	2.88	1.54	0.00	0.00	0.00	0.00	0.00
7.50	18.37	12.64	11.43	4.19	0.00	0.00	0.00	0.00	0.00
8.60	15.03	21.21	31.55	19.57	2.25	0.00	0.00	0.00	0.00
9.70	13.78	12.64	13.45	23.92	20.60	2.82	0.00	0.00	0.00
10.90	9.18	9.72	13.45	17.94	32.45	26.09	4.48	0.00	0.00
12.40	7.87	8.33	5.76	11.79	17.66	36.26	45.12	17.91	2.26
13.80	4.24	8.97	6.21	5.52	9.51	13.02	20.68	32.79	17.01
15.00	4.24	8.97	6.21	5.52	8.08	6.51	10.34	25.08	31.60
16.40	3.67	3.89	5.38	4.78	4.12	7.33	8.96	16.72	27.39
18.00	0.00	1.94	2.24	2.39	3.43	6.11	7.47	4.18	17.55
20.00	0.00	0.00	1.10	1.63	1.12	1.15	1.83	2.28	2.87
22.50	0.00	0.00	0.34	1.20	0.77	0.71	1.12	1.04	1.32
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 3 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	3.14	0.00	0.00	0.00	0.00
4.80	3.14	5.14	9.00	0.00	0.00
6.30	22.00	23.12	3.48	0.00	0.00
7.50	13.57	17.08	27.18	5.90	0.00
8.60	20.00	22.89	34.08	35.42	2.78
9.70	12.10	11.99	13.39	26.56	33.19
10.90	13.57	11.09	6.90	16.72	33.19
12.40	7.23	3.34	5.91	5.90	15.32
13.80	2.37	2.77	3.74	3.63	7.07
15.00	1.69	1.66	2.62	3.63	4.71
16.40	1.17	0.72	1.62	1.57	2.04
18.00	0.00	0.20	1.08	0.66	1.70
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 8 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	2.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	4.13	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	16.54	16.52	4.06	0.00	0.00	0.00	0.00	0.00	0.00
7.50	19.29	19.28	18.93	4.02	0.00	0.00	0.00	0.00	0.00
8.60	21.05	15.77	25.81	25.04	4.44	0.00	0.00	0.00	0.00
9.70	9.65	14.46	18.93	26.97	20.35	4.65	0.00	0.00	0.00
10.90	9.65	9.64	9.46	17.22	33.91	23.24	4.50	3.41	0.00
12.40	8.27	8.26	8.11	9.84	17.44	39.84	38.61	14.61	4.19
13.80	3.56	4.45	4.37	5.30	6.26	10.73	20.79	31.48	13.54
15.00	2.67	4.45	4.37	5.30	6.26	10.73	20.79	31.48	45.14
16.40	1.54	1.54	2.65	2.30	5.43	4.65	7.21	10.91	19.56
18.00	0.64	0.96	1.58	1.91	2.71	3.10	4.50	4.55	9.78
20.00	0.53	0.53	1.03	1.25	1.85	1.90	2.46	1.86	5.34
22.50	0.00	0.00	0.71	0.86	1.36	1.16	1.13	1.70	2.45
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 8 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.91	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	15.64	7.13	4.29	1.65	0.00	0.00	0.00	0.00	0.00
7.50	22.81	11.89	13.00	4.50	0.00	0.00	0.00	0.00	0.00
8.60	14.93	12.97	14.18	16.12	1.97	0.00	0.00	0.00	0.00
9.70	13.69	15.46	10.00	16.70	13.55	2.21	0.00	0.00	0.00
10.90	9.12	11.89	10.00	16.70	23.94	20.44	3.87	0.00	0.00
12.40	7.82	10.19	17.14	18.17	24.39	37.88	41.41	14.34	1.53
13.80	4.21	10.98	9.23	9.49	12.51	15.30	17.84	30.90	16.49
15.00	4.21	10.98	9.23	5.93	11.26	10.20	17.84	30.90	32.97
16.40	3.65	2.85	8.00	5.14	7.23	8.84	10.05	13.39	28.58
18.00	0.00	1.59	3.33	2.57	3.01	3.68	6.44	7.81	11.91
20.00	0.00	0.00	1.09	1.75	1.23	0.90	1.58	1.83	5.85
22.50	0.00	0.00	0.50	1.28	0.90	0.55	0.97	0.84	2.68
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 8 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	3.00	0.00	0.00	0.00	0.00
4.80	3.00	5.34	0.00	0.00	0.00
6.30	21.92	21.59	3.64	0.00	0.00
7.50	21.02	22.48	29.76	4.59	0.00
8.60	19.11	17.72	29.22	30.04	2.82
9.70	14.01	10.02	15.73	36.71	33.55
10.90	8.06	10.02	8.50	11.93	25.81
12.40	3.90	6.96	3.64	7.87	22.12
13.80	3.23	2.50	3.92	3.39	7.15
15.00	1.62	1.75	2.75	3.39	4.76
16.40	1.12	1.08	1.70	1.47	2.06
18.00	0.00	0.54	1.13	0.61	1.72
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 10 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	3.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	5.35	2.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.40	20.28	4.43	0.00	0.00	0.00	0.00	0.00	0.00
7.50	12.48	17.74	22.23	3.88	0.00	0.00	0.00	0.00	0.00
8.60	13.62	12.90	22.56	24.17	4.16	0.00	0.00	0.00	0.00
9.70	12.48	17.74	15.51	27.69	25.41	4.06	0.00	0.00	0.00
10.90	12.48	11.83	10.34	16.61	31.76	20.28	3.36	2.44	0.00
12.40	10.70	5.07	8.86	9.49	16.33	43.46	43.23	27.19	3.51
13.80	3.46	5.46	4.77	5.11	5.86	9.36	15.52	22.52	11.33
15.00	2.30	2.73	4.77	5.11	5.86	9.36	15.52	22.52	37.76
16.40	1.00	1.89	2.90	3.10	5.08	8.11	13.45	19.52	32.72
18.00	0.83	1.18	1.72	2.22	2.54	2.70	4.48	3.25	8.18
20.00	0.68	0.65	1.13	1.51	1.73	1.66	2.75	1.33	4.46
22.50	0.00	0.00	0.78	1.11	1.27	1.01	1.68	1.22	2.05
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 10 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.91	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	15.64	7.13	4.17	1.18	0.00	0.00	0.00	0.00	0.00
7.50	22.81	15.46	12.65	3.44	0.00	0.00	0.00	0.00	0.00
8.60	14.93	12.97	13.80	15.03	2.25	0.00	0.00	0.00	0.00
9.70	13.69	11.89	15.57	22.73	17.01	2.60	0.00	0.00	0.00
10.90	9.12	11.89	9.73	13.77	30.93	21.48	3.52	0.00	0.00
12.40	7.82	10.19	10.84	17.71	20.77	39.06	43.03	6.74	2.03
13.80	4.21	10.98	11.68	8.26	9.52	12.02	21.95	24.69	6.55
15.00	4.21	10.98	8.98	6.36	9.52	12.02	16.26	39.21	21.82
16.40	3.65	2.85	7.78	5.51	4.12	6.77	7.05	16.36	37.83
18.00	0.00	1.59	3.24	2.75	3.44	4.34	5.87	10.49	20.49
20.00	0.00	0.00	1.06	1.88	1.41	1.07	1.44	1.72	7.74
22.50	0.00	0.00	0.49	1.38	1.03	0.65	0.88	0.79	3.55
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 10 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	3.96	0.00	0.00	0.00	0.00
4.80	3.96	5.58	0.00	0.00	0.00
6.30	19.82	23.14	3.24	0.00	0.00
7.50	17.11	22.77	30.24	5.22	0.00
8.60	20.18	20.23	28.86	33.47	1.34
9.70	13.87	13.01	18.90	34.60	33.17
10.90	9.25	7.48	7.56	11.10	36.86
12.40	3.96	2.79	3.24	5.60	17.90
13.80	4.27	1.80	2.44	3.62	4.54
15.00	2.13	1.50	2.44	3.01	3.40
16.40	1.48	1.04	1.81	2.09	1.97
18.00	0.00	0.65	1.26	1.31	0.82
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 14 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	11.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	7.56	15.34	0.00	0.00	0.00	0.00	0.00	0.00
6.30	15.11	27.61	8.45	0.00	0.00	0.00	0.00	0.00
7.50	13.22	14.32	29.58	5.44	2.28	0.00	0.00	0.00
8.60	14.42	11.71	21.51	33.94	12.45	0.00	0.00	0.00
9.70	13.22	7.16	14.79	31.11	34.24	4.43	0.00	0.00
10.90	8.82	7.16	4.93	7.78	22.82	22.14	4.41	2.71
12.40	7.56	6.14	4.23	3.33	9.78	37.96	37.83	27.83
13.80	4.07	3.30	4.55	3.59	5.27	10.22	20.37	24.98
15.00	4.07	3.30	4.55	7.18	4.21	10.22	16.30	19.98
16.40	0.35	2.86	3.94	3.11	3.65	7.09	10.59	12.99
18.00	0.15	0.72	1.64	2.07	2.28	4.43	5.88	7.22
20.00	0.12	0.39	1.08	1.27	1.87	2.42	2.41	2.95
22.50	0.00	0.00	0.74	1.17	1.14	1.11	2.21	1.35
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.76

GP 14 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	8.07	11.99	0.00	0.00	0.00	0.00	0.00	0.00
6.30	13.72	19.25	9.12	0.96	0.00	0.00	0.00	0.00
7.50	12.24	9.75	26.38	5.57	0.00	0.00	0.00	0.00
8.60	10.27	10.63	20.19	28.58	4.47	0.00	0.00	0.00
9.70	12.24	9.75	19.90	31.77	30.29	3.11	0.00	0.00
10.90	12.24	7.20	4.63	7.25	32.75	31.13	3.28	0.00
12.40	8.07	6.18	3.97	4.78	9.12	32.02	36.51	7.24
13.80	11.30	7.82	4.27	5.14	7.56	14.37	21.17	23.41
15.00	8.69	7.82	5.55	5.14	5.29	7.18	18.15	39.01
16.40	0.75	6.78	3.70	4.46	3.93	4.98	13.11	20.29
18.00	0.00	2.83	1.54	3.72	2.73	3.11	4.37	5.63
20.00	0.00	0.00	0.50	1.52	2.23	2.55	1.79	2.31
22.50	0.00	0.00	0.23	1.11	1.64	1.56	1.64	2.11
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 14 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M

3.20	13.89	0.00	0.00	0.00	0.00
4.80	6.95	17.08	0.00	0.00	0.00
6.30	19.22	36.15	6.49	0.00	0.00
7.50	18.91	19.93	40.79	7.74	0.00
8.60	14.74	9.78	27.33	38.84	8.71
9.70	13.51	6.64	9.91	30.96	39.94
10.90	5.40	3.32	4.08	7.74	19.97
12.40	2.32	1.99	3.00	5.31	13.69
13.80	2.49	1.84	2.69	4.29	11.06
15.00	1.50	1.53	2.69	2.86	3.69
16.40	1.08	1.06	1.86	1.24	1.60
18.00	0.00	0.66	1.17	1.03	1.33
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 18 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.54	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	23.58	26.35	4.23	0.00	0.00	0.00	0.00	0.00	0.00
7.50	13.75	24.59	26.15	5.43	1.22	0.00	0.00	0.00	0.00
8.60	15.00	13.41	26.91	23.71	2.00	0.00	0.00	0.00	0.00
9.70	13.75	12.29	14.80	27.16	24.42	1.94	0.00	0.00	0.00
10.90	13.75	6.15	9.87	16.30	36.64	29.09	4.96	1.30	0.00
12.40	5.89	5.27	4.23	9.31	15.70	41.56	42.52	24.48	3.64
13.80	5.08	2.84	4.55	5.01	5.64	8.95	15.26	23.96	7.85
15.00	2.54	2.27	3.19	5.01	5.64	8.95	15.26	23.96	39.24
16.40	1.10	1.97	2.37	3.04	3.42	3.88	13.23	20.77	34.01
18.00	0.46	1.23	1.64	2.17	2.44	2.59	4.41	3.46	8.50
20.00	0.38	1.01	1.08	1.48	1.67	1.59	2.71	1.42	4.64
22.50	0.00	0.00	0.99	1.36	1.22	1.45	1.65	0.65	2.13
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 18 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.15	5.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.52	7.56	4.76	2.15	0.00	0.00	0.00	0.00	0.00
7.50	20.08	8.82	14.44	3.13	0.00	0.00	0.00	0.00	0.00
8.60	16.43	12.83	15.75	18.43	2.89	0.00	0.00	0.00	0.00
9.70	10.04	14.70	14.44	18.78	15.89	1.82	0.00	0.00	0.00
10.90	10.04	20.58	14.44	18.78	26.48	22.45	2.05	0.00	0.00
12.40	4.30	12.60	12.37	16.09	27.24	40.04	35.18	5.71	4.19
13.80	4.63	8.14	10.25	9.82	13.20	16.80	37.89	24.62	15.06
15.00	4.63	5.43	5.13	4.04	4.89	7.28	12.63	28.31	30.11
16.40	4.02	2.35	4.44	3.00	4.24	6.31	7.11	21.34	31.32
18.00	0.00	1.96	2.22	2.50	2.12	2.43	2.28	15.11	14.14
20.00	0.00	0.00	1.21	1.71	1.73	1.65	1.49	2.91	3.56
22.50	0.00	0.00	0.56	1.56	1.32	1.21	1.37	2.00	1.63
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 18 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	4.24	0.00	0.00	0.00	0.00
4.80	4.24	5.17	0.00	0.00	0.00
6.30	25.43	34.41	6.58	0.00	0.00
7.50	16.31	26.26	41.36	5.07	0.00
8.60	14.56	14.16	27.72	45.03	3.67
9.70	13.35	9.96	10.05	34.04	41.49
10.90	11.37	3.92	4.14	7.24	41.49
12.40	4.24	1.55	3.04	2.48	3.84
13.80	2.28	1.39	2.73	2.01	3.11
15.00	3.19	1.39	2.18	2.01	3.11
16.40	0.79	0.97	1.42	1.16	1.79
18.00	0.00	0.80	0.79	0.97	1.50
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 19 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.06	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	20.41	23.06	3.77	0.00	0.00	0.00	0.00	0.00	0.00
7.50	11.91	16.14	23.32	5.67	1.28	0.00	0.00	0.00	0.00
8.60	12.99	11.74	24.00	24.73	2.10	0.00	0.00	0.00	0.00
9.70	20.24	16.14	17.60	28.33	25.61	2.37	0.00	0.00	0.00
10.90	11.91	10.76	8.80	11.33	32.02	23.65	5.31	1.52	0.00
12.40	10.20	9.22	7.54	9.71	16.46	40.55	45.53	25.99	3.64
13.80	4.40	4.97	4.06	5.23	5.91	10.92	16.34	30.78	7.85
15.00	2.20	1.99	4.06	5.23	5.91	10.92	16.34	27.98	39.24
16.40	0.95	1.72	3.52	4.53	5.12	4.73	7.08	7.28	34.01
18.00	0.40	1.08	1.47	2.27	2.56	3.15	4.72	4.04	8.50
20.00	0.32	0.88	0.96	1.55	1.75	1.94	2.90	1.65	4.64
22.50	0.00	0.00	0.88	1.42	1.28	1.77	1.77	0.76	2.13
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 19 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.15	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.52	11.56	3.24	2.11	0.00	0.00	0.00	0.00	0.00
7.50	20.08	13.49	15.14	3.07	1.50	0.00	0.00	0.00	0.00
8.60	16.43	14.71	14.04	18.10	2.72	0.00	0.00	0.00	0.00
9.70	10.04	15.73	15.90	26.43	23.44	1.95	0.00	0.00	0.00
10.90	10.04	13.49	12.87	14.14	28.43	24.07	2.79	0.00	0.00
12.40	4.30	9.63	12.98	14.22	14.11	37.35	45.39	14.78	5.32
13.80	4.63	6.22	11.88	5.67	10.59	12.01	17.15	22.04	13.37
15.00	4.63	6.22	6.99	5.67	7.83	12.01	17.15	22.04	28.65
16.40	4.02	3.60	4.24	4.92	5.19	5.20	7.43	21.22	28.14
18.00	0.00	1.50	1.51	2.46	3.32	4.34	6.19	15.03	17.93
20.00	0.00	0.00	0.83	1.68	1.63	1.77	2.03	2.89	4.51
22.50	0.00	0.00	0.38	1.54	1.25	1.30	1.86	1.99	2.07
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 19 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M

3.20	4.27	0.00	0.00	0.00	0.00
4.80	4.27	5.12	0.00	0.00	0.00
6.30	25.61	25.61	3.87	0.00	0.00
7.50	14.94	23.01	32.28	5.12	0.00
8.60	14.67	15.32	27.64	31.92	4.86
9.70	19.92	14.04	16.32	34.38	29.71
10.90	8.47	8.07	9.37	12.43	40.11
12.40	2.13	3.33	2.98	6.27	12.73
13.80	2.30	1.65	2.24	3.38	4.11
15.00	1.84	1.65	2.24	2.70	4.11
16.40	1.59	1.20	1.67	2.34	2.38
18.00	0.00	1.00	1.39	1.46	1.98
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 24 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	3.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	7.45	3.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	22.36	23.90	4.09	0.00	0.00	0.00	0.00	0.00	0.00
7.50	17.39	18.59	28.66	5.67	1.37	0.00	0.00	0.00	0.00
8.60	9.49	15.21	20.85	24.73	2.24	0.00	0.00	0.00	0.00
9.70	17.39	9.30	14.33	28.33	20.52	2.50	0.00	0.00	0.00
10.90	8.70	9.30	9.55	11.33	34.21	25.01	3.93	1.52	0.00
12.40	7.45	7.97	8.19	9.71	17.59	32.15	33.67	28.64	4.58
13.80	3.21	4.29	4.41	5.23	6.31	11.54	18.13	28.04	9.86
15.00	1.61	4.29	4.41	5.23	6.31	11.54	18.13	28.04	49.30
16.40	0.70	1.49	1.91	4.53	5.47	10.00	15.71	7.29	17.09
18.00	0.29	0.93	1.59	2.27	2.74	3.33	5.24	4.05	10.68
20.00	0.24	0.76	1.04	1.55	1.87	2.05	3.21	1.66	5.83
22.50	0.00	0.00	0.96	1.42	1.37	1.88	1.96	0.76	2.67
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 24 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.15	3.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.52	11.82	2.90	2.18	0.00	0.00	0.00	0.00	0.00
7.50	20.08	13.80	13.53	3.05	1.42	0.00	0.00	0.00	0.00
8.60	16.43	15.05	14.77	23.87	2.58	0.00	0.00	0.00	0.00
9.70	10.04	13.80	13.53	23.92	20.31	2.03	0.00	0.00	0.00
10.90	10.04	13.80	13.53	13.74	29.76	25.00	3.24	0.00	0.00
12.40	4.30	9.85	13.34	11.78	16.20	33.01	43.51	19.85	5.39
13.80	4.63	6.37	10.62	7.99	8.72	12.47	19.94	27.95	19.33
15.00	4.63	6.37	8.12	4.70	8.72	10.60	12.96	21.38	32.87
16.40	4.02	3.68	5.41	4.07	6.42	9.19	8.64	14.25	21.78
18.00	0.00	1.53	3.16	2.04	3.15	4.50	7.20	11.88	13.96
20.00	0.00	0.00	0.74	1.39	1.55	1.84	2.36	2.91	4.57
22.50	0.00	0.00	0.34	1.27	1.18	1.35	2.16	1.78	2.09
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 24 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	5.45	0.00	0.00	0.00	0.00
4.80	3.21	5.27	0.00	0.00	0.00
6.30	27.90	29.07	3.78	0.00	0.00
7.50	17.58	22.17	33.95	6.71	3.32
8.60	16.33	16.61	27.41	38.70	25.36
9.70	13.84	11.48	16.31	31.64	33.22
10.90	7.48	7.21	5.73	9.59	16.61
12.40	3.21	2.29	3.78	5.75	11.39
13.80	2.07	2.47	4.07	4.43	6.13
15.00	1.73	1.48	2.03	1.77	1.53
16.40	1.20	1.07	1.76	0.77	1.33
18.00	0.00	0.89	1.18	0.64	1.11
20.00	0.00	0.00	0.0	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 31 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	4.08	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	23.33	21.77	4.06	0.00	0.00	0.00	0.00	0.00	0.00
7.50	13.61	18.14	21.34	5.35	1.18	0.00	0.00	0.00	0.00
8.60	7.42	11.88	20.69	23.36	2.57	0.00	0.00	0.00	0.00
9.70	13.61	10.89	14.23	21.41	11.76	3.91	0.00	0.00	0.00
10.90	13.61	7.26	9.48	14.28	23.52	9.78	3.56	4.04	0.00
12.40	11.67	9.33	8.13	12.24	20.16	18.43	30.53	13.84	6.07
13.80	6.28	6.70	8.75	6.59	10.85	18.05	26.30	37.26	13.08
15.00	2.51	6.70	4.38	6.59	10.85	18.05	19.73	22.35	32.71
16.40	0.54	2.90	3.79	5.71	9.41	15.64	11.40	12.92	22.68
18.00	0.23	0.73	3.16	3.33	7.84	13.03	4.75	5.38	14.17
20.00	0.19	0.59	1.03	0.78	1.28	2.13	1.94	2.20	7.73
22.50	0.00	0.00	0.95	0.36	0.59	0.98	1.78	2.02	3.54
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 31 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	1.70	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	34.01	12.61	2.29	2.48	0.00	0.00	0.00	0.00	0.00
7.50	19.84	14.71	12.30	3.48	0.66	0.00	0.00	0.00	0.00
8.60	12.98	13.64	19.26	12.64	2.89	0.00	0.00	0.00	0.00
9.70	7.94	12.51	12.30	17.38	15.25	3.39	0.00	0.00	0.00
10.90	7.94	12.51	9.09	11.59	26.51	14.70	1.97	0.00	0.00
12.40	3.40	10.72	10.55	14.90	11.36	31.99	28.66	21.44	3.40
13.80	3.66	11.54	9.88	10.69	12.24	10.44	18.16	28.86	21.99
15.00	3.66	8.83	11.36	10.69	12.24	17.75	18.16	23.09	36.65
16.40	3.17	1.18	8.56	9.27	10.61	11.76	15.74	15.01	19.06
18.00	0.00	0.49	3.57	3.86	4.42	7.54	13.11	8.34	10.59
20.00	0.00	0.00	0.58	1.58	2.17	1.85	3.22	1.71	4.33
22.50	0.00	0.00	0.27	1.45	1.66	0.57	0.98	1.56	3.97
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 31 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	2.78	0.00	0.00	0.00	0.00
4.80	4.17	5.32	0.00	0.00	0.00
6.30	23.06	30.15	5.58	0.00	0.00
7.50	18.48	19.08	30.04	11.94	5.78
8.60	15.21	15.80	23.49	31.64	31.55
9.70	13.94	12.19	15.02	22.18	23.14
10.90	9.73	7.59	10.01	11.94	17.35
12.40	4.72	3.94	5.58	8.77	9.92
13.80	3.89	2.12	4.62	7.87	5.34
15.00	2.99	2.12	2.31	3.15	2.67
16.40	1.04	0.92	2.00	1.36	2.31
18.00	0.00	0.77	1.34	1.14	1.93
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 32 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	9.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	6.29	6.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	25.16	29.87	4.23	0.00	0.00	0.00	0.00	0.00	0.00
7.50	14.67	19.36	29.60	5.06	1.25	0.00	0.00	0.00	0.00
8.60	12.01	12.67	26.91	23.65	2.73	0.00	0.00	0.00	0.00
9.70	14.67	15.49	19.73	36.13	25.00	3.06	0.00	0.00	0.00
10.90	7.34	3.87	4.93	14.45	37.51	30.62	10.09	4.04	0.00
12.40	3.14	3.32	4.23	6.19	10.72	26.25	43.24	13.84	4.09
13.80	3.39	3.57	2.73	3.34	5.77	14.13	18.63	37.26	17.62
15.00	3.39	1.79	2.28	3.34	5.77	11.31	13.97	22.35	44.04
16.40	0.29	1.55	1.97	2.89	4.00	7.35	8.07	12.92	22.90
18.00	0.12	1.03	1.32	1.93	3.33	4.08	3.36	5.39	6.36
20.00	0.10	0.84	1.08	1.58	2.05	1.67	1.38	2.20	2.60
22.50	0.00	0.00	0.99	1.45	1.88	1.53	1.26	2.02	2.39
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 32 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.23	3.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	18.28	18.06	3.43	2.21	0.00	0.00	0.00	0.00	0.00
7.50	16.31	15.91	23.99	3.09	0.72	0.00	0.00	0.00	0.00
8.60	9.58	14.32	23.12	20.77	3.16	0.00	0.00	0.00	0.00
9.70	17.56	29.03	26.79	41.17	28.95	4.29	0.00	0.00	0.00
10.90	16.31	6.76	9.20	15.44	38.36	32.88	9.34	0.00	0.00
12.40	5.38	3.41	3.43	4.41	14.27	36.76	45.35	16.99	3.76
13.80	4.63	3.67	2.21	2.85	3.34	6.60	14.36	30.49	24.29
15.00	4.63	2.20	2.21	2.85	3.34	6.60	14.36	24.40	40.48
16.40	3.01	1.91	1.92	2.47	2.90	4.57	9.96	15.86	21.05
18.00	0.00	1.33	1.60	2.06	1.00	3.81	4.15	8.81	5.85
20.00	0.00	0.00	1.09	1.40	1.00	2.34	1.70	1.80	2.39
22.50	0.00	0.00	1.00	1.29	1.45	2.14	0.78	1.65	2.19
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 32 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	10.69	0.00	0.00	0.00	0.00
4.80	3.56	10.91	0.00	0.00	0.00
6.30	29.75	47.28	4.59	0.00	0.00
7.50	16.00	25.85	45.93	10.40	5.78
8.60	12.02	4.21	27.56	38.59	31.55
9.70	10.39	2.70	7.66	20.81	23.14
10.90	7.69	1.93	3.83	10.40	17.35
12.40	4.81	1.65	2.62	7.13	9.92
13.80	2.49	1.78	2.83	5.76	5.34
15.00	1.92	1.42	2.12	3.84	2.67
16.40	0.67	1.23	1.84	1.66	2.31
18.00	0.00	1.03	1.02	1.39	1.93
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 33 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	4.29	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	25.75	25.03	4.54	0.00	0.00	0.00	0.00	0.00	0.00
7.50	15.02	16.68	26.50	5.44	0.85	0.00	0.00	0.00	0.00
8.60	16.39	13.65	23.13	22.24	1.84	0.00	0.00	0.00	0.00
9.70	10.01	8.34	10.60	27.18	25.35	1.51	0.00	0.00	0.00
10.90	10.01	12.51	10.60	13.59	33.80	30.24	6.76	4.04	0.00
12.40	4.29	7.15	9.09	11.65	14.49	38.89	57.95	13.84	4.09
13.80	4.62	3.85	4.89	6.27	7.80	13.96	12.48	37.26	17.62
15.00	4.62	3.85	4.89	6.27	7.80	5.58	9.36	22.35	44.04
16.40	0.40	3.34	2.12	2.72	2.70	3.63	5.41	12.92	22.90
18.00	0.17	1.11	1.41	1.81	2.25	3.02	4.51	5.38	6.36
20.00	0.14	0.91	1.16	1.48	1.84	1.65	1.84	2.20	2.60
22.50	0.00	0.00	1.06	1.36	1.27	1.51	1.69	2.02	2.39
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 33 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	10.95	4.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	18.25	12.04	3.11	1.99	0.00	0.00	0.00	0.00	0.00
7.50	17.03	14.05	17.09	3.25	0.48	0.00	0.00	0.00	0.00
8.60	13.93	11.79	18.64	20.28	2.10	0.00	0.00	0.00	0.00
9.70	12.77	10.80	11.91	23.24	20.72	2.53	0.00	0.00	0.00
10.90	8.52	10.80	17.09	19.99	35.17	31.24	4.80	0.00	0.00
12.40	7.30	12.04	11.99	13.15	16.52	38.36	54.82	19.78	3.76
13.80	3.93	12.97	8.13	7.29	8.89	10.13	14.76	30.43	24.29
15.00	1.97	5.98	4.78	4.29	7.56	10.13	14.76	21.30	40.48
16.40	1.70	3.46	2.49	2.23	3.85	2.70	5.12	18.46	21.05
18.00	0.00	1.44	2.07	1.86	1.93	2.25	3.20	6.59	5.85
20.00	0.00	0.00	1.41	1.27	1.58	1.38	1.74	1.80	2.39
22.50	0.00	0.00	1.29	1.16	1.20	1.27	0.80	1.65	2.19
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 33 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M

3.20	7.53	0.00	0.00	0.00	0.00
4.80	3.76	8.14	0.00	0.00	0.00
6.30	28.79	39.86	6.58	0.00	0.00
7.50	14.71	18.03	13.78	12.37	5.78
8.60	15.09	11.39	27.65	26.99	31.55
9.70	10.98	8.54	7.68	24.74	23.14
10.90	8.12	5.38	3.84	12.37	17.35
12.40	5.65	2.71	2.63	8.48	9.92
13.80	2.63	2.92	2.84	6.85	5.34
15.00	2.03	1.17	2.13	4.57	2.67
16.40	0.70	1.01	1.84	1.98	2.31
18.00	0.00	0.84	1.02	1.65	1.93
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 40 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M
3.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.70	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	18.87	16.38	2.92	0.00	0.00	0.00	0.00	0.00	0.00
7.50	12.58	11.47	20.42	5.20	0.89	0.00	0.00	0.00	0.00
8.60	13.72	12.51	14.85	22.70	1.93	0.00	0.00	0.00	0.00
9.70	15.72	11.47	13.61	20.81	17.73	3.79	0.00	0.00	0.00
10.90	12.58	11.47	13.61	10.40	19.50	15.15	12.87	4.04	0.00
12.40	8.09	9.83	11.67	8.92	15.19	32.46	27.58	13.84	6.72
13.80	8.71	7.06	6.28	9.60	16.36	17.48	23.77	37.26	36.19
15.00	2.90	7.06	6.28	9.60	16.36	13.98	17.82	22.35	28.95
16.40	1.26	6.12	5.45	8.32	5.67	9.09	10.30	12.92	18.82
18.00	0.10	2.55	4.54	2.77	3.55	5.05	4.29	5.38	5.23
20.00	0.09	0.83	0.19	1.14	1.93	2.07	1.76	2.20	2.14
22.50	0.00	0.00	0.17	0.52	0.89	0.95	1.61	2.02	1.96
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 40 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M
3.20	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	6.17	2.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.59	11.16	3.56	1.42	0.00	0.00	0.00	0.00	0.00
7.50	17.99	13.02	14.55	2.77	0.84	0.00	0.00	0.00	0.00
8.60	15.70	8.95	14.97	19.92	3.65	0.00	0.00	0.00	0.00
9.70	10.80	13.02	15.39	20.48	19.21	5.20	0.00	0.00	0.00
10.90	7.20	11.10	11.23	14.94	27.57	17.35	3.51	0.00	0.00
12.40	6.17	11.16	11.76	12.81	16.47	19.33	30.09	19.78	3.48
13.80	6.64	12.02	7.68	5.11	7.71	11.21	22.68	30.43	37.45
15.00	3.32	12.02	10.36	10.22	7.71	16.02	22.68	21.30	29.96
16.40	2.88	3.86	6.65	5.76	8.69	13.88	11.23	18.46	19.47
18.00	0.00	1.61	1.66	3.69	3.34	11.57	7.02	6.59	5.41
20.00	0.00	0.00	1.13	1.51	2.73	2.84	1.91	1.80	2.21
22.50	0.00	0.00	1.04	1.38	2.09	2.60	0.88	1.65	2.03
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 40 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	5.20	0.00	0.00	0.00	0.00
4.80	2.60	8.55	0.00	0.00	0.00
6.30	20.40	25.14	7.35	0.00	0.00
7.50	16.68	15.84	20.02	11.20	5.93
8.60	17.70	17.28	18.72	30.54	32.35
9.70	15.62	11.73	17.16	22.40	23.72
10.90	9.55	7.63	14.30	16.80	17.79
12.40	5.20	6.54	9.80	9.60	10.17
13.80	3.78	3.79	7.92	5.17	5.47
15.00	2.80	2.17	2.64	2.58	2.74
16.40	0.49	0.94	1.14	1.34	1.42
18.00	0.00	0.39	0.95	0.37	0.40
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 47 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.51	2.32	0.00	0.00	0.00	0.00	0.00	0.00
6.30	20.05	18.57	2.92	0.00	0.00	0.00	0.00	0.00
7.50	14.62	16.25	20.42	7.68	1.64	0.00	0.00	0.00
8.60	12.76	14.77	14.85	16.75	1.78	0.00	0.00	0.00
9.70	17.54	13.54	13.61	15.36	13.08	3.22	0.00	0.00
10.90	11.70	10.83	13.61	15.36	32.71	32.19	3.56	4.04
12.40	5.01	6.97	11.67	13.16	14.02	22.07	30.53	13.84
13.80	5.40	5.00	6.28	14.18	12.08	17.83	26.30	37.26
15.00	5.40	5.00	6.28	7.09	9.06	11.89	19.73	22.35
16.40	2.34	4.33	5.45	4.91	7.85	5.15	11.40	12.92
18.00	0.10	1.81	4.54	3.07	4.36	4.29	4.75	5.38
20.00	0.08	0.59	0.19	1.68	1.78	1.76	1.94	2.20
22.50	0.00	0.00	0.17	0.77	1.64	1.61	1.78	2.02
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 47 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	1.31	1.18	0.00	0.00	0.00	0.00	0.00	0.00
6.30	8.49	7.82	2.67	1.32	0.00	0.00	0.00	0.00
7.50	7.62	11.05	13.36	3.84	1.54	0.00	0.00	0.00
8.60	10.81	12.96	16.03	19.26	3.37	0.00	0.00	0.00
9.70	20.57	15.75	16.47	23.02	15.43	4.15	0.00	0.00
10.90	17.52	15.20	14.69	9.98	16.97	16.61	3.56	0.00
12.40	15.02	12.55	11.45	13.16	13.23	24.91	30.53	19.78
13.80	7.03	10.20	6.99	7.08	14.24	19.16	26.30	30.43
15.00	7.03	7.65	6.99	7.08	14.24	15.33	19.73	21.30
16.40	4.27	5.08	4.63	6.14	12.34	9.96	11.40	18.46
18.00	0.00	0.55	3.86	5.12	6.17	5.54	4.75	6.59
20.00	0.00	0.00	2.43	2.09	1.68	2.26	1.94	1.80
22.50	0.00	0.00	0.45	1.92	0.77	2.08	1.78	1.65
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 47 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M
3.20	3.47	0.00	0.00	0.00
4.80	1.96	5.22	0.00	0.00
6.30	28.70	33.91	5.21	0.00
7.50	19.91	24.68	26.35	11.20
8.60	14.80	13.65	22.11	30.54
9.70	16.39	10.14	20.27	22.40
10.90	7.05	4.40	10.13	16.80
12.40	2.57	2.90	6.95	9.60
13.80	2.11	1.56	5.61	5.17
15.00	1.63	1.56	1.87	2.58
16.40	1.41	1.08	0.81	1.34
18.00	0.00	0.90	0.68	0.37
20.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00

GP 49 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	2.31	0.00	0.00	0.00	0.00
4.80	2.89	1.91	0.00	0.00	0.00
6.30	20.22	22.95	4.14	0.00	0.00
7.50	16.85	22.32	28.98	8.00	1.06
8.60	11.03	17.04	26.34	17.46	1.94
9.70	20.22	15.62	14.49	32.01	10.65
10.90	10.11	8.93	9.66	16.00	35.48
12.40	5.78	3.83	4.14	6.86	15.21
13.80	3.11	2.06	4.46	5.91	13.10
15.00	3.11	2.06	2.23	4.43	9.83
16.40	2.70	1.79	1.93	3.84	8.52
18.00	1.12	0.89	1.61	2.13	2.37
20.00	0.55	0.61	1.05	1.75	0.97
22.50	0.00	0.00	0.97	1.60	0.89
25.70	0.00	0.00	0.00	0.00	0.00

GP 49 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	1.85	0.00	0.00	0.00	0.00
4.80	1.85	1.04	0.00	0.00	0.00
6.30	17.35	16.00	2.90	4.07	0.00
7.50	17.23	24.25	27.04	6.65	1.41
8.60	15.51	15.08	25.81	17.61	3.07
9.70	18.52	12.12	12.51	35.14	19.67
10.90	14.22	11.40	9.13	12.35	28.10
12.40	4.80	6.24	6.66	5.70	12.04
13.80	2.78	4.48	6.24	5.26	10.38
15.00	2.39	4.48	3.12	4.38	10.38
16.40	2.07	3.30	2.70	3.80	6.74
18.00	1.44	1.62	1.58	2.53	3.75
20.00	0.00	0.00	1.29	1.55	3.07
22.50	0.00	0.00	1.01	0.95	1.41
25.70	0.00	0.00	0.00	0.00	0.00

GP 49 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M
3.20	2.16	0.00	0.00	0.00
4.80	3.09	1.88	0.00	0.00
6.30	28.76	24.97	6.49	0.00
7.50	19.12	25.25	30.28	11.44
8.60	6.69	15.98	22.30	31.20
9.70	22.73	19.70	9.84	17.16
10.90	8.30	6.23	9.84	17.16
12.40	3.09	1.88	8.44	9.81
13.80	2.33	1.55	6.99	5.28
15.00	2.00	1.09	3.49	5.28
16.40	1.73	0.81	1.82	2.29
18.00	0.00	0.67	0.50	0.38
20.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00

GP 61 N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	0.70	0.00	0.00	0.00	0.00
4.80	1.75	0.85	0.00	0.00	0.00
6.30	31.47	16.99	2.45	0.00	0.00
7.50	20.40	25.77	11.45	7.00	0.59
8.60	13.35	21.63	24.99	10.19	1.93
9.70	8.16	9.91	22.91	11.67	5.89
10.90	4.08	5.95	17.18	23.35	11.79
12.40	3.50	3.40	4.91	20.01	25.26
13.80	3.77	3.66	2.64	10.78	21.77
15.00	7.53	5.49	5.29	8.62	16.32
16.40	3.26	3.17	2.29	5.60	9.43
18.00	1.36	2.64	4.96	1.56	3.93
20.00	0.67	0.54	0.62	0.64	1.61
22.50	0.00	0.00	0.29	0.58	1.47
25.70	0.00	0.00	0.00	0.00	0.00

GP 61 N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	0.00	0.00	0.00	0.00	0.00
4.80	4.05	0.94	0.00	0.00	0.00
6.30	27.00	22.06	1.54	2.45	0.00
7.50	7.87	22.00	19.03	7.13	2.02
8.60	12.03	11.28	18.41	15.57	2.20
9.70	11.02	8.14	16.87	14.27	4.04
10.90	7.87	5.06	13.28	24.26	16.16
12.40	13.50	5.09	7.08	8.56	24.24
13.80	7.27	6.70	3.31	7.90	14.92
15.00	5.81	8.12	4.31	6.59	14.92
16.40	2.52	4.75	2.87	5.71	9.70
18.00	1.05	5.87	11.97	3.81	5.39
20.00	0.00	0.00	0.98	2.33	4.41
22.50	0.00	0.00	0.36	1.43	2.02
25.70	0.00	0.00	0.00	0.00	0.00

GP 61 N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M
3.20	0.47	0.00	0.00	0.00
4.80	1.18	0.77	0.00	0.00
6.30	35.96	11.84	1.67	0.00
7.50	25.50	34.61	4.88	5.89
8.60	18.85	31.30	31.96	12.84
9.70	8.23	11.30	22.46	17.66
10.90	3.56	5.38	19.53	29.43
12.40	1.65	1.08	8.37	15.14
13.80	1.77	1.16	4.51	10.87
15.00	1.52	0.99	3.61	5.43
16.40	1.32	0.86	2.34	2.35
18.00	0.00	0.72	0.65	0.39
20.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00

COMBINED N. ATLANTIC ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.43	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	23.56	21.77	3.21	0.00	0.00	0.00	0.00	0.00	0.00
7.50	13.50	18.14	21.37	6.21	1.42	0.00	0.00	0.00	0.00
8.60	8.18	11.88	23.31	19.36	3.10	0.00	0.00	0.00	0.00
9.70	13.50	10.89	14.96	23.96	9.93	2.80	0.00	0.00	0.00
10.90	13.50	7.26	9.08	15.09	28.38	13.99	2.75	4.04	0.00
12.40	11.57	9.33	7.78	12.93	18.25	23.97	28.25	13.84	3.13
13.80	6.92	6.70	8.38	6.55	10.48	18.07	25.35	37.26	13.49
15.00	2.31	6.70	3.94	6.55	10.48	18.07	20.28	22.35	33.74
16.40	0.80	2.90	3.42	4.97	9.08	11.19	13.18	12.92	23.39
18.00	0.33	0.73	2.85	2.96	6.62	7.46	7.32	5.38	14.62
20.00	0.27	0.59	1.17	0.97	1.55	3.05	1.50	2.20	7.97
22.50	0.00	0.00	0.53	0.44	0.71	1.40	1.37	2.02	3.65
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

COMBINED N. ATLANTIC WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.18	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.17	13.04	2.29	1.19	0.00	0.00	0.00	0.00	0.00
7.50	28.41	18.76	12.30	3.48	0.90	0.00	0.00	0.00	0.00
8.60	13.47	14.94	19.26	12.91	3.91	0.00	0.00	0.00	0.00
9.70	12.35	11.66	12.30	18.80	15.24	4.32	0.00	0.00	0.00
10.90	6.18	11.66	9.09	11.84	24.21	14.41	2.33	0.00	0.00
12.40	4.23	8.69	10.55	16.11	13.06	33.34	25.91	12.35	1.96
13.80	4.56	9.36	9.88	10.93	14.07	9.31	21.46	23.27	21.11
15.00	3.42	7.96	11.36	10.93	14.07	17.29	21.46	33.24	42.22
16.40	1.98	2.03	8.56	8.35	7.17	11.53	13.02	20.17	18.29
18.00	0.00	1.01	3.57	3.25	3.59	6.72	10.85	7.20	9.15
20.00	0.00	0.00	0.58	1.52	2.44	2.36	3.80	1.96	4.99
22.50	0.00	0.00	0.27	0.70	1.34	0.72	1.16	1.80	2.29
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

COMBINED N. ATLANTIC SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	2.34	0.00	0.00	0.00	0.00
4.80	3.97	5.71	0.00	0.00	0.00
6.30	22.66	19.87	4.88	0.00	0.00
7.50	18.26	24.05	30.20	8.89	3.20
8.60	15.76	18.02	24.86	25.21	20.97
9.70	13.63	13.62	15.38	30.22	32.04
10.90	10.08	7.82	9.69	12.44	19.22
12.40	4.67	4.22	4.88	9.14	10.99
13.80	4.28	2.68	3.68	8.20	5.92
15.00	3.27	1.87	2.63	3.28	2.96
16.40	1.09	1.16	2.28	1.42	2.56
18.00	0.00	0.97	1.52	1.19	2.14
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

N. ATLANTIC GP 3 (65.7 N, 5.8 W)

N. ATLANTIC GP 8 (60.1 N, 38.7 W)

N. ATLANTIC GP 10 (58.6 N, 18.2 W)

N. ATLANTIC GP 14 (55.9 N, 4.4 E)

N. ATLANTIC GP 18 (51.5 N, 42.7 W)

N. ATLANTIC GP 19 (50.6 N, 21.5 W)

N. ATLANTIC GP 24 (45.1 N, 30.2 W)

N. ATLANTIC GP 31 (39.3 N, 13.9 W)

N. ATLANTIC GP 32 (38.8 N, 65.1 W)

N. ATLANTIC GP 33 (37.9 N, 48.2 W)

N. ATLANTIC GP 40 (32.0 N, 33.7 W)

N. ATLANTIC GP 47 (26.7 N, 48.5 W)

N. ATLANTIC GP 49 (24.2 N, 72.8 W)

N. ATLANTIC GP 54 (16.7 N, 54.2 W)

N. ATLANTIC GP 61 (9.2 N, 31.9 W)

COMBINED N. ATLANTIC REGION

APPENDIX B

N. PACIFIC REGION

GP 2 N. PACIFIC ANNUAL PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	1.89	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.14	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	18.86	19.50	4.75	1.67	0.00	0.00	0.00	0.00	0.00
7.50	14.67	13.65	16.64	3.24	0.00	0.00	0.00	0.00	0.00
8.60	16.00	17.37	30.25	21.22	3.53	0.00	0.00	0.00	0.00
9.70	14.67	9.10	11.09	25.93	16.19	4.65	0.00	0.00	0.00
10.90	7.33	9.10	11.09	12.97	32.37	23.24	5.78	2.78	0.00
12.40	12.57	11.70	9.51	11.11	20.81	39.84	33.03	23.81	4.19
13.80	6.77	4.20	5.12	5.98	7.47	10.73	17.78	30.77	13.54
15.00	2.03	4.20	5.12	5.98	7.47	10.73	17.78	25.64	45.14
16.40	1.17	3.64	4.44	5.19	6.47	4.65	15.41	8.89	19.56
18.00	0.49	1.21	1.11	4.32	2.70	3.10	5.14	3.70	9.78
20.00	0.40	0.50	0.61	1.41	1.77	1.90	3.15	3.03	5.34
22.50	0.00	0.00	0.28	0.97	1.21	1.16	1.93	1.39	2.45
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 2 N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.81	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.06	20.74	2.46	1.42	0.00	0.00	0.00	0.00	0.00
7.50	16.38	16.13	17.22	3.87	0.00	0.00	0.00	0.00	0.00
8.60	17.87	17.60	25.05	18.09	2.83	0.00	0.00	0.00	0.00
9.70	16.38	8.06	11.48	27.64	19.44	3.07	0.00	0.00	0.00
10.90	8.19	8.06	5.74	11.06	25.92	23.00	4.52	0.00	0.00
12.40	5.62	6.91	9.84	9.48	16.66	39.43	48.42	22.19	2.77
13.80	4.54	7.44	5.30	10.21	11.96	14.16	10.43	23.90	29.86
15.00	4.54	7.44	10.60	10.21	11.96	7.08	20.86	23.90	29.86
16.40	2.62	3.23	9.18	4.42	5.18	6.13	9.04	20.71	25.88
18.00	0.00	1.61	1.91	1.84	4.32	5.11	3.77	5.18	6.47
20.00	0.00	0.00	0.94	1.21	1.06	1.25	1.85	2.82	3.53
22.50	0.00	0.00	0.29	0.55	0.65	0.77	1.13	1.29	1.62
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 2 N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	1.30	1.79	0.00	0.00	0.00
4.80	5.19	3.84	0.00	0.00	0.00
6.30	20.76	20.46	0.79	3.86	0.00
7.50	18.16	19.40	18.41	7.50	0.00
8.60	16.51	19.53	30.12	16.35	4.66
9.70	15.14	11.94	18.41	29.98	21.35
10.90	9.08	8.95	13.81	14.99	42.70
12.40	7.78	7.67	7.89	12.85	18.30
13.80	2.79	2.75	4.25	5.54	5.91
15.00	2.79	2.75	4.25	5.54	3.94
16.40	0.48	0.72	1.47	2.40	1.71
18.00	0.00	0.20	0.61	1.00	1.42
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 4 N. PACIFIC ANNUAL PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	2.63	2.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	4.38	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	17.54	16.70	4.49	2.12	0.00	0.00	0.00	0.00	0.00
7.50	10.23	14.61	20.96	3.09	0.00	0.00	0.00	0.00	0.00
8.60	11.16	15.94	22.87	20.23	3.04	0.00	0.00	0.00	0.00
9.70	15.35	14.61	20.96	30.91	20.90	4.44	0.00	0.00	0.00
10.90	15.35	9.74	10.48	12.36	34.83	22.21	4.96	2.45	0.00
12.40	8.77	8.35	4.49	10.60	17.91	38.07	42.52	21.01	3.51
13.80	9.44	4.50	4.84	5.71	6.43	10.25	15.26	27.15	11.33
15.00	2.83	4.50	4.84	5.71	6.43	10.25	15.26	22.62	37.76
16.40	1.64	3.90	4.19	4.95	5.57	8.88	13.23	19.61	32.72
18.00	0.68	0.65	1.05	2.06	2.32	2.96	4.41	3.27	8.18
20.00	0.00	0.27	0.57	1.35	1.52	1.82	2.71	2.67	4.46
22.50	0.00	0.00	0.26	0.93	1.04	1.11	1.65	1.23	2.05
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 4 N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	8.67	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.67	18.31	2.37	2.24	0.00	0.00	0.00	0.00	0.00
7.50	20.23	14.24	4.60	3.26	0.00	0.00	0.00	0.00	0.00
8.60	16.55	15.54	25.10	7.11	1.29	0.00	0.00	0.00	0.00
9.70	10.11	14.24	18.40	32.61	23.63	1.48	0.00	0.00	0.00
10.90	5.06	14.24	18.40	19.56	35.45	22.26	3.15	0.00	0.00
12.40	4.33	6.10	7.89	11.18	20.26	31.79	40.53	11.84	1.07
13.80	4.67	5.26	8.49	6.02	5.45	13.70	21.82	25.50	11.48
15.00	4.67	3.94	8.49	6.02	5.45	13.70	14.55	25.50	45.92
16.40	4.05	2.28	2.94	5.22	3.31	11.87	12.61	22.10	29.85
18.00	0.00	0.95	1.84	4.35	2.36	2.47	5.25	9.21	5.80
20.00	0.00	0.00	1.00	1.78	1.61	1.62	1.29	3.77	3.39
22.50	0.00	0.00	0.46	0.65	1.18	1.11	0.79	2.07	2.49
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 4 N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	3.37	1.66	0.00	0.00	0.00
4.80	3.37	4.73	0.00	0.00	0.00
6.30	20.20	26.01	7.20	1.81	0.00
7.50	11.78	11.04	25.20	3.17	0.00
8.60	17.14	21.07	27.49	23.03	4.66
9.70	15.71	11.04	12.60	31.66	21.35
10.90	15.71	13.79	12.60	21.11	42.70
12.40	3.37	4.73	7.20	9.05	18.30
13.80	3.63	2.55	3.88	3.90	5.91
15.00	3.63	2.55	1.94	3.90	3.94
16.40	1.57	0.66	1.34	1.69	1.71
18.00	0.52	0.18	0.56	0.70	1.42
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 12 N. PACIFIC ANNUAL		PERIOD FREQUENCY OF OCCURRENCE								
PERIOD		0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	3.58	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	5.96	3.18	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	17.88	25.40	4.28	1.83	0.00	0.00	0.00	0.00	0.00	0.00
7.50	13.91	14.82	22.48	5.35	0.00	0.00	0.00	0.00	0.00	0.00
8.60	15.17	16.16	21.80	29.19	2.55	0.00	0.00	0.00	0.00	0.00
9.70	13.91	14.82	14.98	21.40	17.51	3.16	0.00	0.00	0.00	0.00
10.90	13.91	7.41	9.99	16.05	35.01	23.73	3.83	2.30	0.00	0.00
12.40	5.96	6.35	8.56	9.17	20.01	40.68	43.80	19.76	2.55	0.00
13.80	5.13	3.42	4.61	4.94	10.77	14.60	23.58	42.55	8.22	0.00
15.00	2.57	2.74	4.61	4.94	5.39	7.30	11.79	21.27	54.82	0.00
16.40	1.11	1.78	4.00	4.28	4.67	6.33	10.22	7.38	23.75	0.00
18.00	0.93	0.99	1.66	1.43	1.95	2.11	3.41	3.07	5.94	0.00
20.00	0.00	0.40	0.82	0.88	1.27	1.29	2.09	2.51	3.24	0.00
22.50	0.00	0.00	0.50	0.54	0.88	0.79	1.28	1.15	1.48	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 12 N. PACIFIC WINTER		PERIOD FREQUENCY OF OCCURRENCE								
PERIOD		0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	12.46	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	20.77	18.31	2.40	1.18	0.00	0.00	0.00	0.00	0.00	0.00
7.50	19.39	14.24	18.68	3.44	0.00	0.00	0.00	0.00	0.00	0.00
8.60	15.86	15.54	15.29	22.50	1.36	0.00	0.00	0.00	0.00	0.00
9.70	9.69	14.24	14.01	13.75	12.45	1.21	0.00	0.00	0.00	0.00
10.90	4.85	14.24	14.01	13.75	31.12	24.26	3.66	0.00	0.00	0.00
12.40	4.15	6.10	12.01	14.73	26.67	36.39	39.23	11.34	1.41	0.00
13.80	4.47	5.26	8.62	12.69	11.49	11.20	25.35	36.65	15.18	0.00
15.00	4.47	3.94	8.62	6.35	5.75	11.20	16.90	30.54	45.55	0.00
16.40	3.88	2.28	2.99	5.50	4.98	9.71	7.32	10.59	26.32	0.00
18.00	0.00	0.95	1.87	3.21	2.90	2.83	3.66	5.29	5.48	0.00
20.00	0.00	0.00	1.02	1.87	2.04	1.99	2.50	3.61	3.59	0.00
22.50	0.00	0.00	0.47	1.03	1.24	1.21	1.37	1.98	2.47	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 12 N. PACIFIC SUMMER		PERIOD FREQUENCY OF OCCURRENCE								
PERIOD		0-1 M	1-2 M	2-3 M	3-4 M	4-5 M				
3.20	3.94	1.82	0.00	0.00	0.00					
4.80	3.94	3.90	0.00	0.00	0.00					
6.30	23.65	26.01	3.09	1.11	0.00					
7.50	18.40	21.24	32.42	1.95	0.00					
8.60	15.05	16.55	31.44	31.90	3.53					
9.70	13.80	15.17	14.41	29.24	24.26					
10.90	9.20	7.58	7.21	19.49	48.52					
12.40	3.94	2.60	3.09	5.57	13.86					
13.80	4.25	2.80	3.33	4.20	4.48					
15.00	2.12	1.40	2.33	3.60	2.99					
16.40	1.10	0.73	1.73	2.08	1.29					
18.00	0.61	0.20	0.96	0.87	1.08					
20.00	0.00	0.00	0.00	0.00	0.00					
22.50	0.00	0.00	0.00	0.00	0.00					
25.70	0.00	0.00	0.00	0.00	0.00					

GP 13 N. PACIFIC ANNUAL PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	3.58	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	5.96	2.83	2.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	17.88	20.36	2.80	1.90	0.00	0.00	0.00	0.00	0.00
7.50	13.91	19.80	18.66	2.78	0.00	0.00	0.00	0.00	0.00
8.60	15.17	14.40	25.44	18.18	2.52	0.00	0.00	0.00	0.00
9.70	13.91	13.20	13.99	27.77	17.32	4.00	0.00	0.00	0.00
10.90	13.91	13.20	13.99	22.21	34.63	29.98	4.96	2.38	0.00
12.40	5.96	5.66	8.00	9.52	19.79	34.27	42.52	24.49	3.51
13.80	5.13	3.05	4.31	5.13	10.66	9.23	15.26	21.98	11.33
15.00	2.57	2.44	4.31	5.13	5.33	9.23	15.26	21.98	37.76
16.40	1.11	1.58	3.73	4.44	4.62	8.00	13.23	19.05	32.72
18.00	0.93	0.88	1.55	1.48	2.69	2.67	4.41	6.35	8.18
20.00	0.00	0.36	0.76	0.91	1.57	1.64	2.71	2.60	4.46
22.50	0.00	0.00	0.47	0.56	0.87	1.00	1.65	1.19	2.05
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 13 N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	12.46	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	20.77	12.09	1.99	0.91	0.00	0.00	0.00	0.00	0.00
7.50	19.39	21.15	7.75	2.66	0.00	0.00	0.00	0.00	0.00
8.60	15.86	15.38	15.92	11.60	1.09	0.00	0.00	0.00	0.00
9.70	9.69	14.10	19.39	15.95	10.01	1.34	0.00	0.00	0.00
10.90	4.85	14.10	15.51	21.27	30.03	26.85	5.11	0.00	0.00
12.40	4.15	6.04	13.29	13.67	17.16	28.77	32.86	20.07	2.00
13.80	4.47	5.21	7.16	9.82	13.86	18.59	23.59	28.82	21.49
15.00	4.47	3.90	7.16	9.82	13.86	12.39	17.69	21.61	32.24
16.40	3.88	2.26	6.20	8.51	8.01	5.37	10.22	12.49	27.94
18.00	0.00	0.94	2.58	3.54	3.34	3.13	5.11	10.41	7.76
20.00	0.00	0.00	1.27	1.45	1.64	2.20	3.49	4.26	5.08
22.50	0.00	0.00	0.78	0.80	1.00	1.34	1.92	2.34	3.49
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 13 N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	5.30	1.77	0.00	0.00	0.00
4.80	5.30	2.53	0.00	0.00	0.00
6.30	19.60	27.82	2.67	1.03	0.00
7.50	18.54	23.61	31.13	6.03	0.00
8.60	13.48	16.10	30.56	29.59	5.85
9.70	12.36	11.80	15.56	30.14	36.20
10.90	9.27	8.85	9.34	18.08	33.52
12.40	5.30	2.53	2.67	5.17	11.49
13.80	5.70	2.72	2.87	3.89	6.19
15.00	2.85	1.36	2.87	3.34	3.71
16.40	1.48	0.71	1.49	1.93	2.15
18.00	0.82	0.20	0.83	0.80	0.89
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 16 N. PACIFIC ANNUAL PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	3.19	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	5.32	5.06	2.28	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.30	20.24	4.56	1.04	0.00	0.00	0.00	0.00	0.00
7.50	12.42	17.71	23.95	1.82	0.00	0.00	0.00	0.00	0.00
8.60	13.55	12.88	23.23	26.42	2.65	0.00	0.00	0.00	0.00
9.70	12.42	11.81	10.65	27.24	24.29	3.56	0.00	0.00	0.00
10.90	12.42	11.81	10.65	12.11	30.36	26.74	4.34	2.38	0.00
12.40	10.65	5.06	9.12	10.38	15.62	30.56	49.65	24.49	2.31
13.80	4.59	5.45	4.91	5.59	5.61	16.45	13.37	21.98	24.84
15.00	2.29	5.45	4.91	5.59	11.21	8.23	13.37	21.98	24.84
16.40	0.99	1.42	2.55	4.84	4.86	7.13	11.59	19.05	21.52
18.00	0.83	0.79	1.77	2.42	2.83	3.56	3.86	6.35	17.94
20.00	0.00	0.32	0.87	1.65	1.66	2.43	2.37	2.60	5.87
22.50	0.00	0.00	0.53	0.91	0.91	1.34	1.45	1.19	2.69
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 16 N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	12.46	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	20.77	12.09	2.86	1.07	0.00	0.00	0.00	0.00	0.00
7.50	19.39	21.15	11.12	3.13	0.00	0.00	0.00	0.00	0.00
8.60	15.86	15.38	18.19	13.68	0.98	0.00	0.00	0.00	0.00
9.70	9.69	14.10	11.12	18.81	15.67	1.15	0.00	0.00	0.00
10.90	4.85	14.10	11.12	12.54	22.38	20.04	3.19	0.00	0.00
12.40	4.15	6.04	9.53	10.75	23.02	31.90	44.40	21.62	1.36
13.80	4.47	5.21	10.26	11.58	10.33	21.14	18.39	27.95	14.69
15.00	4.47	3.90	10.26	11.58	10.33	13.21	14.71	23.29	36.72
16.40	3.88	2.26	8.90	10.03	8.95	6.87	12.75	16.15	25.46
18.00	0.00	0.94	3.71	4.18	5.97	2.67	3.19	6.73	15.91
20.00	0.00	0.00	1.82	1.71	1.47	1.87	2.17	2.75	3.47
22.50	0.00	0.00	1.11	0.94	0.90	1.15	1.20	1.51	2.39
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 16 N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	3.45	1.77	0.00	0.00	0.00
4.80	3.45	3.78	0.00	0.00	0.00
6.30	17.26	25.22	3.73	1.54	0.00
7.50	16.11	23.54	34.82	4.51	0.00
8.60	17.57	14.44	30.86	39.33	3.34
9.70	16.11	11.77	8.71	27.04	30.58
10.90	12.08	10.30	8.71	9.01	38.22
12.40	6.90	3.78	3.73	7.72	13.11
13.80	3.72	2.72	4.02	4.16	7.06
15.00	1.86	1.36	2.81	3.33	4.23
16.40	0.97	0.94	1.74	2.16	2.45
18.00	0.54	0.39	0.37	1.20	1.02
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 24 N. PACIFIC ANNUAL PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	1.54	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.57	3.67	2.31	0.00	0.00	0.00	0.00	0.00	0.00
6.30	20.53	18.34	4.63	1.20	0.00	0.00	0.00	0.00	0.00
7.50	17.96	17.11	21.60	2.11	0.00	0.00	0.00	0.00	0.00
8.60	13.06	14.00	17.68	23.00	3.22	0.00	0.00	0.00	0.00
9.70	11.97	12.84	16.20	23.19	22.15	5.38	0.00	0.00	0.00
10.90	11.97	12.84	10.80	14.06	29.53	13.44	2.58	4.41	0.00
12.40	10.26	7.33	9.26	12.05	18.99	34.56	44.21	37.83	11.58
13.80	5.53	3.95	4.99	6.49	6.82	12.41	23.80	20.37	24.95
15.00	2.76	3.95	4.99	6.49	6.82	12.41	11.90	16.30	31.18
16.40	1.44	3.42	4.32	5.62	5.91	10.75	8.25	10.59	16.22
18.00	0.40	0.86	1.80	2.81	3.45	5.38	5.16	5.88	9.01
20.00	0.00	0.23	0.88	1.92	2.01	3.67	2.81	2.41	3.69
22.50	0.00	0.00	0.54	1.05	1.11	2.02	1.29	2.21	3.38
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 24 N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	9.79	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	16.31	14.66	2.11	1.00	0.00	0.00	0.00	0.00	0.00
7.50	15.23	10.06	3.69	2.33	0.00	0.00	0.00	0.00	0.00
8.60	12.46	10.98	18.13	15.90	0.99	0.00	0.00	0.00	0.00
9.70	11.42	10.06	12.31	23.33	18.20	1.46	0.00	0.00	0.00
10.90	11.42	10.06	15.39	23.33	20.47	18.30	4.64	0.00	0.00
12.40	9.79	12.94	13.19	10.00	21.45	43.91	49.74	17.90	2.74
13.80	7.03	13.9.	14.20	5.38	14.70	13.51	16.07	28.92	17.69
15.00	3.51	9.29	8.52	5.38	10.50	6.76	10.71	19.28	29.48
16.40	3.05	3.22	7.38	7.00	7.28	8.78	9.28	16.71	25.55
18.00	0.00	1.34	4.10	3.89	3.03	3.42	4.64	8.35	12.78
20.00	0.00	0.00	0.67	1.59	2.48	2.40	3.17	5.70	6.97
22.50	0.00	0.00	0.31	0.87	0.91	1.46	1.74	3.13	4.79
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 24 N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	4.37	1.91	0.00	0.00	0.00
4.80	4.37	4.09	0.00	0.00	0.00
6.30	24.02	29.97	5.90	1.39	0.00
7.50	17.84	19.07	27.54	3.25	0.00
8.60	13.90	17.34	22.54	26.60	7.42
9.70	15.29	12.71	20.66	24.38	20.40
10.90	10.19	6.36	6.89	16.25	34.01
12.40	4.37	2.72	5.90	13.93	17.49
13.80	2.35	2.93	3.81	6.00	9.42
15.00	2.35	1.47	3.18	4.50	6.28
16.40	0.61	1.02	2.20	2.60	2.72
18.00	0.34	0.42	1.38	1.08	2.27
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 30 N. PACIFIC ANNUAL PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	1.01	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	5.03	3.44	1.69	0.00	0.00	0.00	0.00	0.00	0.00
6.30	25.14	24.05	4.23	1.15	0.00	0.00	0.00	0.00	0.00
7.50	17.60	12.03	24.65	2.01	0.00	0.00	0.00	0.00	0.00
8.60	12.80	13.12	16.13	21.92	3.73	0.00	0.00	0.00	0.00
9.70	11.73	12.03	14.79	26.80	17.11	3.68	0.00	0.00	0.00
10.90	11.73	12.03	9.86	13.40	34.23	18.38	4.08	4.41	0.00
12.40	5.03	10.31	12.68	11.48	14.67	31.52	34.98	37.83	11.68
13.80	5.42	3.70	4.55	6.18	7.90	16.97	22.60	20.37	18.87
15.00	2.71	3.70	4.55	6.18	7.90	16.97	18.84	16.30	31.44
16.40	1.41	3.21	3.94	5.36	6.85	5.88	9.79	10.59	21.80
18.00	0.39	0.80	1.64	2.68	3.99	3.68	5.44	5.88	9.08
20.00	0.00	0.22	0.81	1.83	2.33	2.01	2.23	2.41	3.72
22.50	0.00	0.00	0.49	1.00	1.28	0.92	2.04	2.21	3.41
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 30 N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.49	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	17.45	13.66	2.21	1.18	0.00	0.00	0.00	0.00	0.00
7.50	16.29	10.63	3.87	2.30	0.00	0.00	0.00	0.00	0.00
8.60	13.33	11.59	18.98	16.54	2.34	0.00	0.00	0.00	0.00
9.70	12.22	10.63	14.82	27.57	18.44	2.91	0.00	0.00	0.00
10.90	12.22	10.63	14.82	15.16	34.31	25.45	3.53	0.00	0.00
12.40	10.47	11.84	11.05	11.81	18.38	37.40	45.35	23.33	4.81
13.80	7.52	12.75	11.89	12.72	9.11	13.43	16.28	25.13	20.74
15.00	3.76	9.81	11.89	4.24	9.11	6.71	16.28	25.13	36.30
16.40	3.26	3.40	5.15	3.68	3.43	5.82	9.88	12.44	17.98
18.00	0.00	1.42	4.30	2.14	2.86	4.85	5.88	7.78	11.23
20.00	0.00	0.00	0.70	1.50	1.17	1.98	1.92	4.24	6.13
22.50	0.00	0.00	0.32	1.15	0.86	1.45	0.88	1.94	2.81
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 30 N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	6.14	1.70	0.00	0.00	0.00
4.80	3.07	7.27	0.00	0.00	0.00
6.30	29.66	31.51	6.04	1.33	0.00
7.50	21.48	17.81	40.15	3.09	0.00
8.60	15.62	11.41	20.75	33.73	3.95
9.70	9.54	9.33	9.16	26.28	25.36
10.90	7.16	5.65	7.04	15.46	36.23
12.40	2.05	4.85	6.04	6.63	12.42
13.80	2.20	5.22	3.90	5.71	10.03
15.00	2.20	2.61	3.25	4.28	6.69
16.40	0.57	2.26	2.25	2.47	2.90
18.00	0.32	0.38	1.41	1.03	2.42
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 31 N. PACIFIC ANNUAL PERIOD FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	3.15	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	5.26	3.72	1.75	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.02	18.60	4.37	1.26	0.00	0.00	0.00	0.00	0.00
7.50	12.26	13.02	20.40	2.20	0.00	0.00	0.00	0.00	0.00
8.60	13.38	9.47	16.69	23.97	3.67	0.00	0.00	0.00	0.00
9.70	12.26	8.68	10.20	21.98	16.83	2.79	0.00	0.00	0.00
10.90	12.26	13.02	10.20	14.65	33.65	27.94	2.97	3.67	0.00
12.40	10.51	11.16	8.74	12.56	14.42	23.95	50.99	31.43	3.44
13.80	5.66	8.01	9.41	6.76	7.77	12.90	16.47	20.31	14.81
15.00	2.83	8.01	9.41	6.75	7.77	12.90	13.73	20.31	37.02
16.40	0.98	3.47	4.08	5.86	6.73	11.18	7.14	11.73	25.66
18.00	0.41	0.87	3.40	2.44	5.61	4.66	3.97	4.89	10.69
20.00	0.00	0.47	0.83	1.20	2.29	2.29	3.24	4.00	4.37
22.50	0.00	0.00	0.51	0.37	1.26	1.40	1.49	3.67	4.01
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 31 N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	7.10	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	17.74	14.31	2.44	1.06	0.00	0.00	0.00	0.00	0.00
7.50	16.56	9.82	11.40	2.06	0.00	0.00	0.00	0.00	0.00
8.60	13.55	10.71	16.79	17.99	2.60	0.00	0.00	0.00	0.00
9.70	12.42	12.77	13.11	18.56	20.53	2.85	0.00	0.00	0.00
10.90	12.42	12.77	13.11	16.49	34.85	35.63	4.60	0.00	0.00
12.40	7.10	10.94	11.24	13.08	15.14	26.26	56.15	18.05	3.73
13.80	7.64	11.79	12.10	11.42	8.81	11.18	10.61	33.04	16.07
15.00	3.82	9.07	10.53	7.61	8.81	8.55	13.79	19.44	40.18
16.40	1.66	3.14	4.56	6.60	3.82	7.41	9.19	11.79	24.38
18.00	0.00	1.31	3.80	2.75	3.18	4.75	3.83	9.83	8.71
20.00	0.00	0.00	0.62	1.35	1.30	1.94	1.25	5.74	4.75
22.50	0.00	0.00	0.29	1.03	0.95	1.43	0.57	2.11	2.18
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 31 N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M

3.20	7.52	1.89	0.00	0.00	0.00
4.80	3.76	8.09	0.00	0.00	0.00
6.30	26.89	26.15	6.28	2.05	0.00
7.50	15.36	15.72	28.28	2.39	0.00
8.60	12.69	10.29	19.43	26.11	4.00
9.70	12.51	10.38	10.47	23.93	22.01
10.90	10.31	7.23	10.47	14.36	36.69
12.40	4.33	8.09	8.98	10.26	12.58
13.80	2.03	7.84	5.80	8.84	13.55
15.00	3.44	2.90	4.83	6.63	6.77
16.40	0.88	1.01	3.35	3.83	2.93
18.00	0.29	0.42	2.09	1.60	1.47
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 33 N. PACIFIC ANNUAL PERIOD FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	1.71	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.56	2.75	1.50	0.00	0.00	0.00	0.00	0.00	0.00
6.30	21.37	24.72	3.74	1.34	0.00	0.00	0.00	0.00	0.00
7.50	14.96	16.02	26.21	2.34	0.00	0.00	0.00	0.00	0.00
8.60	16.32	13.98	23.83	25.58	3.35	0.00	0.00	0.00	0.00
9.70	19.94	12.82	13.11	31.26	30.74	3.01	0.00	0.00	0.00
10.90	9.97	6.41	8.74	7.82	30.74	30.12	3.81	3.81	0.00
12.40	4.27	5.49	3.74	6.70	13.18	25.81	32.68	32.68	3.44
13.80	4.60	5.92	4.03	7.21	7.09	13.90	21.12	21.12	14.81
15.00	2.76	5.92	4.03	7.21	5.68	11.12	21.12	21.12	37.02
16.40	1.20	3.85	6.99	6.25	3.69	7.23	12.20	12.20	25.66
18.00	0.33	0.85	2.91	2.61	3.07	4.02	5.08	5.08	10.69
20.00	0.00	0.17	0.71	1.28	1.68	3.29	2.08	2.08	4.37
22.50	0.00	0.00	0.44	0.39	0.77	1.51	1.91	1.91	4.01
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 33 N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.25	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	14.65	17.96	3.08	1.66	0.00	0.00	0.00	0.00	0.00
7.50	13.15	10.48	17.98	3.23	0.00	0.00	0.00	0.00	0.00
8.60	14.34	17.14	22.37	19.01	3.97	0.00	0.00	0.00	0.00
9.70	13.15	13.09	15.47	30.33	29.14	3.31	0.00	0.00	0.00
10.90	13.15	10.48	7.19	10.97	31.32	33.11	9.48	0.00	0.00
12.40	11.27	6.73	6.17	5.53	6.24	18.45	28.45	13.65	7.09
13.80	12.14	4.83	7.64	5.96	6.72	15.28	21.89	36.76	15.26
15.00	4.85	9.67	7.64	5.96	6.72	15.28	17.51	22.06	38.15
16.40	1.05	7.12	9.50	10.33	7.58	6.62	11.38	12.74	19.84
18.00	0.00	0.70	2.40	4.30	4.86	4.41	6.32	10.62	11.02
20.00	0.00	0.00	0.39	1.76	1.99	2.71	2.59	2.17	4.51
22.50	0.00	0.00	0.18	0.97	1.46	0.83	2.37	1.99	4.13
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 33 N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M

3.20	2.48	1.58	0.00	0.00	0.00
4.80	4.22	3.43	0.00	0.00	0.00
6.30	27.31	29.04	5.21	1.29	0.00
7.50	17.38	21.56	30.41	3.00	0.00
8.60	14.85	16.80	26.54	16.38	2.32
9.70	15.35	15.40	12.16	30.03	29.80
10.90	5.79	3.08	6.08	15.01	42.58
12.40	5.71	3.43	5.21	12.87	10.95
13.80	2.67	2.84	5.61	13.86	7.86
15.00	2.67	1.42	5.61	4.16	3.93
16.40	1.16	0.99	1.95	2.40	1.70
18.00	0.39	0.41	1.22	1.00	0.85
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 38 N. PACIFIC ANNUAL PERIOD FREQUENCY OF OCCUR

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	0.88	0.50	0.00	0.00	0.00	0.00	0.00	0.00
4.80	1.76	2.48	0.71	0.00	0.00	0.00	0.00	0.00
6.30	21.94	19.87	1.43	1.36	0.00	0.00	0.00	0.00
7.50	15.36	23.18	20.82	2.39	0.00	0.00	0.00	0.00
8.60	11.17	15.81	27.25	17.37	3.35	0.00	0.00	0.00
9.70	10.24	11.59	16.65	23.88	15.34	3.01	0.00	0.00
10.90	10.24	5.80	12.49	15.92	30.67	30.12	3.81	3.56
12.40	8.78	4.97	7.14	13.65	13.15	25.81	32.68	30.53
13.80	9.45	5.35	3.84	7.35	14.16	13.90	21.12	26.30
15.00	4.73	5.35	3.84	7.35	14.16	11.12	21.12	19.73
16.40	4.10	4.64	3.33	6.37	3.68	7.23	12.20	11.40
18.00	1.37	0.39	1.39	2.65	3.07	4.02	5.08	4.75
20.00	0.00	0.08	0.68	1.30	1.67	3.29	2.08	1.94
22.50	0.00	0.00	0.42	0.40	0.77	1.51	1.91	1.78
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 38 N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	1.10	3.21	0.00	0.00	0.00	0.00	0.00	0.00
6.30	16.52	18.32	1.54	1.60	0.00	0.00	0.00	0.00
7.50	8.35	13.87	19.27	3.10	0.00	0.00	0.00	0.00
8.60	9.11	11.04	21.02	22.35	2.21	0.00	0.00	0.00
9.70	12.85	10.12	16.58	22.97	17.24	2.72	0.00	0.00
10.90	12.85	11.25	10.30	12.42	27.38	27.24	4.98	0.00
12.40	11.02	8.68	10.37	14.37	14.78	16.34	29.87	7.33
13.80	10.08	9.34	8.27	5.73	9.36	17.60	22.98	39.46
15.00	13.64	6.92	5.38	5.73	9.36	17.60	18.38	23.67
16.40	3.60	6.00	3.58	4.97	8.11	8.72	11.95	13.68
18.00	0.86	1.25	2.99	4.14	6.76	5.45	6.64	11.40
20.00	0.00	0.00	0.49	1.69	2.77	2.97	2.72	2.33
22.50	0.00	0.00	0.22	0.93	2.03	1.36	2.49	2.14
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 38 N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	1.83	1.88	0.00	0.00	0.00
4.80	3.66	3.20	0.00	0.00	0.00
6.30	30.41	22.62	0.98	1.08	0.00
7.50	18.38	31.45	27.77	2.51	0.00
8.60	15.39	18.47	34.45	23.29	3.52
9.70	11.54	12.53	20.16	25.12	25.83
10.90	8.55	2.86	7.61	25.12	32.29
12.40	3.66	1.88	2.28	10.76	16.60
13.80	2.37	2.03	2.11	5.80	11.92
15.00	1.97	1.42	2.11	3.48	5.96
16.40	1.37	1.06	1.52	2.01	2.58
18.00	0.85	0.59	1.01	0.84	1.29
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 51 N. PACIFIC ANNUAL PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	0.89	0.42	0.00	0.00	0.00	0.00	0.00	0.00
4.80	1.77	2.09	0.72	0.00	0.00	0.00	0.00	0.00
6.30	35.49	25.11	3.61	1.71	0.00	0.00	0.00	0.00
7.50	15.53	19.53	29.44	3.00	0.00	0.00	0.00	0.00
8.60	11.29	10.65	22.94	21.81	2.72	0.00	0.00	0.00
9.70	10.35	9.77	12.62	22.99	24.90	3.01	0.00	0.00
10.90	5.18	7.32	8.41	10.00	32.37	30.12	3.81	3.56
12.40	4.44	6.28	7.21	8.57	10.67	25.81	32.68	30.53
13.80	4.78	4.51	3.88	9.23	9.19	13.90	21.12	26.30
15.00	4.78	6.76	3.88	9.23	6.90	11.12	21.12	19.73
16.40	4.14	5.86	3.37	8.00	5.98	7.23	12.20	11.40
18.00	1.38	1.63	2.80	3.33	3.32	4.02	5.08	4.75
20.00	0.00	0.07	0.69	1.64	2.72	3.29	2.08	1.94
22.50	0.00	0.00	0.42	0.50	1.24	1.51	1.91	1.78
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 51 N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.03	2.47	0.00	0.00	0.00	0.00	0.00	0.00
6.30	10.14	8.15	3.00	1.38	0.00	0.00	0.00	0.00
7.50	8.28	9.50	14.00	4.02	0.00	0.00	0.00	0.00
8.60	12.90	11.63	13.75	17.55	2.85	0.00	0.00	0.00
9.70	11.83	14.40	14.00	18.50	18.32	4.26	0.00	0.00
10.90	11.83	12.38	11.55	16.09	18.32	8.51	4.53	0.00
12.40	10.14	9.87	14.10	18.61	22.43	14.59	7.77	9.87
13.80	10.92	8.77	8.72	5.20	14.49	19.64	16.74	10.63
15.00	10.92	11.43	7.43	7.42	9.66	27.49	25.11	21.26
16.40	9.46	8.53	9.24	6.43	6.28	13.62	29.02	36.86
18.00	1.58	1.92	2.33	2.68	3.49	8.51	12.09	15.36
20.00	0.00	0.94	1.34	1.32	2.85	2.32	2.47	3.14
22.50	0.00	0.00	0.53	0.80	1.31	1.06	2.27	2.88
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 51 N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M
3.20	2.12	0.00	0.00	0.00
4.80	3.18	4.37	0.00	0.00
6.30	46.06	40.46	3.51	4.02
7.50	14.86	25.04	59.82	4.69
8.60	10.00	11.36	20.56	20.45
9.70	11.64	7.31	5.74	37.50
10.90	4.21	5.98	4.10	18.75
12.40	2.76	1.90	2.81	8.03
13.80	2.29	2.05	1.51	2.60
15.00	1.60	1.02	0.76	2.60
16.40	0.79	0.35	0.66	0.75
18.00	0.50	0.15	0.55	0.62
20.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00

N. PACIFIC ANNUAL PERIOD PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-10 M

3.20	2.69	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	5.37	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	17.01	27.03	4.63	0.00	0.00	0.00	0.00	0.00	0.00
7.50	15.65	15.77	21.57	2.93	0.00	0.00	0.00	0.00	0.00
8.60	15.93	17.21	23.53	25.52	2.58	0.00	0.00	0.00	0.00
9.70	14.61	15.77	16.18	29.23	17.68	3.17	0.00	0.00	0.00
10.90	13.56	7.88	10.79	17.54	35.37	23.73	5.04	0.00	0.00
12.40	6.70	6.75	9.24	10.03	20.21	40.68	43.25	20.89	2.55
13.80	4.34	2.92	4.98	5.39	10.88	14.61	23.29	44.97	8.22
15.00	2.89	1.45	4.98	5.39	5.44	7.30	11.64	22.49	54.82
16.40	1.25	0.63	2.16	1.87	4.71	6.32	10.09	5.84	23.75
18.00	0.00	0.53	1.08	1.17	1.57	2.11	3.36	3.25	5.94
20.00	0.00	0.00	0.59	0.64	0.96	1.30	2.07	1.33	3.24
22.50	0.00	0.00	0.27	0.29	0.59	0.79	1.26	1.22	1.48
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

N. PACIFIC WINTER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	2.27	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	6.80	3.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	14.96	14.55	2.38	0.00	0.00	0.00	0.00	0.00	0.00
7.50	13.22	12.67	13.89	3.73	0.00	0.00	0.00	0.00	0.00
8.60	14.43	13.82	22.72	16.29	2.76	0.00	0.00	0.00	0.00
9.70	13.22	12.67	13.89	22.41	12.64	2.47	0.00	0.00	0.00
10.90	12.17	12.67	13.89	14.93	31.60	24.66	3.76	0.00	0.00
12.40	8.61	9.95	11.91	12.80	27.09	36.98	40.31	12.80	1.53
13.80	7.32	8.75	6.41	13.78	11.67	11.38	26.05	41.34	4.93
15.00	4.88	5.85	6.41	6.89	5.83	11.38	17.37	27.56	49.35
16.40	2.12	3.04	5.55	5.97	5.06	9.86	7.52	11.95	28.51
18.00	0.00	1.69	1.85	1.99	1.68	1.65	2.51	3.98	11.88
20.00	0.00	0.00	0.75	0.82	1.03	1.01	1.54	1.63	2.91
22.50	0.00	0.00	0.35	0.37	0.63	0.61	0.94	0.75	0.89
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

N. PACIFIC SUMMER PERIOD FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	4.70	0.48	0.00	0.00	0.00
4.80	4.70	9.59	0.00	0.00	0.00
6.30	23.49	28.76	3.29	0.00	0.00
7.50	21.92	22.37	30.69	2.71	0.00
8.60	17.94	12.20	33.48	29.60	5.00
9.70	10.96	11.18	15.34	32.56	22.94
10.90	10.96	5.60	7.67	16.28	45.88
12.40	2.35	4.80	3.29	9.30	9.83
13.80	1.52	2.58	3.54	5.01	10.59
15.00	1.01	1.55	1.77	2.50	3.17
16.40	0.44	0.90	0.92	1.30	1.83
18.00	0.00	0.00	0.00	0.72	0.76
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

N. PACIFIC GP 16 (47.1 N, 161.2 E)

N. PACIFIC GP 24 (41.0 N, 134.9 W)

N. PACIFIC GP 33 (34.6 N, 145.9 E)

N. PACIFIC GP 38 (31.5 N, 127.7 W)

N. PACIFIC **GP 51 (20.5 N, 177.1 W)**
ANNUAL **WINTER**

N. PACIFIC GP 55 (17.6 N, 138.5 E)

APPENDIX C

SOUTHERN HEMISPHERE REGION

GP 50 S. HEMISPHERE	WINTER	PERCENTAGE FREQUENCY OF OCCURRENCE
PERIOD	M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M	
3.20	11.26	3.15 1.18 0.00 0.00 0.00
4.80	11.26	3.15 1.18 0.00 0.00 0.00
6.30	41.74	30.34 19.41 11.90 11.11 0.00
7.50	26.13	36.85 36.47 33.33 22.22 0.00
8.60	3.90	9.55 13.53 15.48 16.67 50.00
9.70	3.90	9.55 13.53 15.48 16.67 50.00
10.90	1.50	5.84 11.18 16.67 22.22 0.00
12.40	0.30	1.35 2.94 4.76 11.11 0.00
13.80	0.00	0.22 0.59 2.38 0.00 0.00
15.00	0.00	0.00 0.00 0.00 0.00 0.00
16.40	0.00	0.00 0.00 0.00 0.00 0.00
18.00	0.00	0.00 0.00 0.00 0.00 0.00
20.00	0.00	0.00 0.00 0.00 0.00 0.00
22.50	0.00	0.00 0.00 0.00 0.00 0.00
25.70	0.00	0.00 0.00 0.00 0.00 0.00

GP 54 S. HEMISPHERE ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M
3.20	0.89	0.00	0.00	0.00	0.00	0.00
4.80	0.89	0.00	0.00	0.00	0.00	0.00
6.30	14.29	1.95	0.28	0.00	0.00	0.00
7.50	35.71	14.39	4.41	1.50	0.00	0.00
8.60	16.07	15.37	8.95	4.51	3.13	0.00
9.70	16.07	15.37	8.95	4.51	3.13	0.00
10.90	12.50	29.02	29.20	22.56	15.63	20.00
12.40	3.57	15.85	25.34	27.82	25.00	20.00
13.80	0.00	5.85	14.33	21.05	25.00	20.00
15.00	0.00	1.71	5.79	11.28	15.63	20.00
16.40	0.00	0.49	1.93	4.51	9.38	20.00
18.00	0.00	0.00	0.55	1.50	3.13	0.00
20.00	0.00	0.00	0.09	0.25	0.00	0.00
22.50	0.00	0.00	0.09	0.25	0.00	0.00
25.70	0.00	0.00	0.09	0.25	0.00	0.00

GP 54 S. HEMISPHERE WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00
6.30	11.90	1.70	0.27	0.00	0.00	0.00
7.50	38.10	13.03	3.74	1.19	0.00	0.00
8.60	16.67	15.16	8.56	4.46	2.04	0.00
9.70	16.67	15.16	8.56	4.46	2.04	0.00
10.90	14.29	30.03	29.41	22.02	16.33	10.00
12.40	2.38	16.71	26.20	27.98	24.49	20.00
13.80	0.00	6.23	14.71	21.43	24.49	30.00
15.00	0.00	1.70	5.88	11.31	16.33	20.00
16.40	0.00	0.28	1.87	4.76	8.16	10.00
18.00	0.00	0.00	0.53	1.79	4.08	10.00
20.00	0.00	0.00	0.09	0.20	0.68	0.00
22.50	0.00	0.00	0.09	0.20	0.68	0.00
25.70	0.00	0.00	0.09	0.20	0.68	0.00

GP 54 S. HEMISPHERE SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	-6 M
3.20	0.94	0.00	0.00	0.00	0.00	0.00
4.80	0.94	0.00	0.00	0.00	0.00	0.00
6.30	13.21	2.17	0.27	0.00	0.00	0.00
7.50	35.85	14.46	4.36	1.53	0.00	0.00
8.60	16.04	15.30	8.86	4.58	1.72	0.00
9.70	16.04	15.30	8.86	4.58	1.72	0.00
10.90	13.21	28.92	29.16	22.14	17.24	20.00
12.40	3.77	15.90	25.34	27.48	24.14	20.00
13.80	0.00	5.78	14.44	21.37	24.14	20.00
15.00	0.00	1.69	5.99	11.45	17.24	20.00
16.40	0.00	0.48	1.91	4.58	10.34	20.00
18.00	0.00	0.00	0.54	1.53	3.45	0.00
20.00	0.00	0.00	0.09	0.25	0.00	0.00
22.50	0.00	0.00	0.09	0.25	0.00	0.00
25.70	0.00	0.00	0.09	0.25	0.00	0.00

GP 67 S. HEMISPHERE ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M
3.20	0.82	0.00	0.00	0.00	0.00	0.00
4.80	0.82	0.00	0.00	0.00	0.00	0.00
6.30	18.03	3.18	0.56	0.00	0.00	0.00
7.50	39.34	18.58	6.72	3.03	0.00	0.00
8.60	14.75	16.63	11.20	6.44	3.33	0.00
9.70	14.75	16.63	11.20	6.44	3.33	0.00
10.90	9.84	26.89	30.81	26.52	20.00	25.00
12.40	1.64	12.71	22.97	27.27	26.67	25.00
13.80	0.00	4.16	11.20	18.18	23.33	25.00
15.00	0.00	0.98	3.92	8.33	13.33	25.00
16.40	0.00	0.24	1.12	3.03	6.67	0.00
18.00	0.00	0.00	0.28	0.76	3.33	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00

GP 67 S. HEMISPHERE WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	1.53	0.10	0.00	0.00	0.00
4.80	1.53	0.10	0.00	0.00	0.00
6.30	22.45	5.41	1.28	0.00	0.00
7.50	37.76	22.85	9.90	3.95	0.00
8.60	12.76	16.53	12.62	8.55	4.55
9.70	12.76	16.53	12.62	8.55	4.55
10.90	9.18	23.65	29.71	27.63	27.27
12.40	2.04	10.42	20.13	25.00	27.27
13.80	0.00	3.41	9.27	15.79	18.18
15.00	0.00	0.80	3.19	6.58	9.09
16.40	0.00	0.20	0.96	2.63	9.09
18.00	0.00	0.00	0.32	1.32	0.00
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 67 S. HEMISPHERE SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	13.51	1.59	0.26	0.00	0.00	0.00	0.00
7.50	37.84	14.01	4.20	1.56	0.00	0.00	0.00
8.60	16.22	15.92	9.19	4.69	2.50	0.00	0.00
9.70	16.22	15.92	9.19	4.69	2.50	0.00	0.00
10.90	13.51	29.94	30.45	23.44	16.67	15.38	0.00
12.40	2.70	15.61	25.98	28.65	26.67	23.08	0.00
13.80	0.00	5.41	13.65	20.83	25.00	23.08	50.00
15.00	0.00	1.27	5.25	10.42	15.00	23.08	50.00
16.40	0.00	0.32	1.57	4.17	6.67	7.69	0.00
18.00	0.00	0.00	0.26	1.04	3.33	7.69	0.00
20.00	0.00	0.00	0.00	0.17	0.56	0.00	0.00
22.50	0.00	0.00	0.00	0.17	0.56	0.00	0.00
25.70	0.00	0.00	0.00	0.17	0.56	0.00	0.00

GP 70 S. HEMISPHERE ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M

3.20	0.49	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.49	0.00	0.00	0.00	0.00	0.00	0.00
6.30	11.65	1.94	0.33	0.00	0.00	0.00	0.00
7.50	33.01	14.32	5.25	2.36	0.00	0.00	0.00
8.60	16.50	15.29	9.84	5.91	3.95	0.00	0.00
9.70	16.50	15.29	9.84	5.91	3.95	0.00	0.00
10.90	15.53	28.88	29.84	24.41	21.05	17.50	0.00
12.40	1.85	16.02	24.59	26.77	26.37	25.00	50.00
13.80	0.97	6.07	13.11	18.90	23.68	25.00	50.00
15.00	0.00	1.70	5.25	9.45	13.16	25.00	0.00
16.40	0.00	0.49	1.64	3.94	5.26	12.50	0.00
18.00	0.00	0.00	0.33	1.57	2.63	0.00	0.00
20.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.26	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.26	0.00	0.00	0.00

GP 70 S. HEMISPHERE WINTER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M

3.20	1.10	0.11	0.00	0.00	0.00	0.00	0.00
4.80	1.10	0.11	0.00	0.00	0.00	0.00	0.00
6.30	18.13	4.78	1.20	0.00	0.00	0.00	0.00
7.50	35.71	21.52	10.76	5.00	5.00	0.00	0.00
8.60	14.01	16.30	12.95	9.38	7.50	0.00	0.00
9.70	14.01	16.30	12.95	9.38	7.50	0.00	0.00
10.90	12.09	24.35	29.48	28.75	25.00	25.00	0.00
12.40	3.30	11.30	19.52	23.75	25.00	25.00	0.00
13.80	0.55	3.91	8.76	13.75	15.00	25.00	0.00
15.00	0.00	1.09	3.19	6.25	10.00	25.00	0.00
16.40	0.00	0.22	0.80	2.50	5.00	0.00	0.00
18.00	0.00	0.00	0.40	1.25	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 70 S. HEMISPHERE SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M

3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	11.36	1.22	0.28	0.00	0.00	0.00	0.00
7.50	34.09	11.93	3.38	1.08	0.00	0.00	0.00
8.60	17.05	15.14	8.31	4.32	2.27	0.00	0.00
9.70	17.05	15.14	8.31	4.32	2.27	0.00	0.00
10.90	15.91	30.89	29.86	22.16	15.15	11.11	0.00
12.40	4.55	17.13	26.76	28.65	25.76	22.22	25.00
13.80	0.00	6.42	11.93	21.62	25.76	27.78	25.00
15.00	0.00	1.83	5.92	11.35	16.67	22.22	25.00
16.40	0.00	0.31	1.69	4.32	7.58	11.11	25.00
18.00	0.00	0.00	0.56	1.62	3.03	5.56	0.00
20.00	0.00	0.00	0.00	0.18	0.51	0.00	0.00
22.50	0.00	0.00	0.00	0.18	0.51	0.00	0.00
25.70	0.00	0.00	0.00	0.18	0.51	0.00	0.00

GP 73 S. HEMISPHERE ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M

3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	12.12	1.29	0.26	0.00	0.00	0.00	0.00
7.50	36.36	12.54	3.37	1.03	0.00	0.00	0.00
8.60	16.67	15.27	8.16	3.85	1.67	0.00	0.00
9.70	16.67	15.27	8.16	3.85	1.67	0.00	0.00
10.90	15.15	30.55	29.53	21.54	15.00	7.69	0.00
12.40	3.03	17.04	26.94	28.72	25.00	23.08	0.00
13.80	0.00	6.11	15.03	22.56	26.67	23.08	50.00
15.00	0.00	1.61	5.96	11.79	16.67	23.08	50.00
16.40	0.00	0.32	1.81	4.62	8.33	15.38	0.00
18.00	0.00	0.00	0.52	1.54	3.33	7.69	0.00
20.00	0.00	0.00	0.09	0.17	0.56	0.00	0.00
22.50	0.00	0.00	0.09	0.17	0.56	0.00	0.00
25.70	0.00	0.00	0.09	0.17	0.56	0.00	0.00

GP 73 S. HEMISPHERE WINTER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M

3.20	1.11	0.00	0.00	0.00	0.00	0.00	0.00
4.80	1.11	0.00	0.00	0.00	0.00	0.00	0.00
6.30	17.78	2.47	0.25	0.00	0.00	0.00	0.00
7.50	37.78	16.71	5.30	1.92	0.00	0.00	0.00
8.60	14.44	16.30	10.10	5.45	3.03	0.00	0.00
9.70	14.44	16.30	10.10	5.45	3.03	0.00	0.00
10.90	11.11	28.22	30.56	24.36	18.18	20.00	0.00
12.40	2.22	13.97	24.49	27.56	27.27	20.00	0.00
13.80	0.00	4.66	12.63	19.87	24.24	20.00	0.00
15.00	0.00	1.10	4.80	9.62	15.15	20.00	0.00
16.40	0.00	0.27	1.52	3.85	6.06	20.00	0.00
18.00	0.00	0.00	0.25	1.28	3.03	0.00	0.00
20.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.21	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.21	0.00	0.00	0.00

GP 73 S. HEMISPHERE SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M

3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	9.52	1.18	0.00	0.00	0.00	0.00	0.00
7.50	38.10	10.98	2.66	0.87	0.00	0.00	0.00
8.60	16.67	15.10	7.58	3.49	1.70	0.00	0.00
9.70	16.67	15.10	7.58	3.49	1.70	0.00	0.00
10.90	14.29	31.76	29.79	20.96	13.64	8.33	0.00
12.40	4.76	17.65	28.19	29.26	25.00	20.83	20.00
13.80	0.00	6.27	15.69	23.14	26.14	29.17	20.00
15.00	0.00	1.57	6.12	12.23	18.18	20.83	20.00
16.40	0.00	0.39	1.86	4.80	9.09	12.50	20.00
18.00	0.00	0.00	0.53	1.31	3.41	4.17	20.00
20.00	0.00	0.00	0.00	0.15	0.38	1.39	0.00
22.50	0.00	0.00	0.00	0.15	0.38	1.39	0.00
25.70	0.00	0.00	0.00	0.15	0.38	1.39	0.00

GP 76 S. HEMISPHERE ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	7.14	0.72	0.00	0.00	0.00	0.00	0.00	0.00
7.50	30.95	9.71	2.79	0.99	0.00	0.00	0.00	0.00
8.60	19.05	14.57	7.74	3.96	2.13	1.35	0.00	0.00
9.70	19.05	14.57	7.74	3.96	2.13	1.35	0.00	0.00
10.90	19.05	32.73	30.34	22.77	15.96	10.81	7.14	0.00
12.40	4.76	18.71	28.17	29.70	27.66	24.32	21.43	25.00
13.80	0.00	6.83	15.48	22.28	25.53	27.03	28.57	25.00
15.00	0.00	1.80	5.88	10.89	15.96	18.92	21.43	25.00
16.40	0.00	0.36	1.55	3.96	7.45	10.81	14.29	25.00
18.00	0.00	0.00	0.31	0.99	2.13	2.70	7.14	0.00
20.00	0.00	0.00	0.00	0.17	0.35	0.90	0.00	0.00
22.50	0.00	0.00	0.00	0.17	0.35	0.90	0.00	0.00
25.70	0.00	0.00	0.00	0.17	0.35	0.90	0.00	0.00

GP 76 S. HEMISPHERE WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	8.93	0.93	0.31	0.00	0.00	0.00	0.00	0.00
7.50	30.36	11.15	3.38	1.12	0.00	0.00	0.00	0.00
8.60	17.86	14.86	8.46	4.49	2.70	1.79	0.00	0.00
9.70	17.86	14.86	8.46	4.49	2.70	1.79	0.00	0.00
10.90	17.86	31.58	30.15	23.60	17.57	10.71	10.00	0.00
12.40	5.36	17.96	27.08	29.21	27.03	25.00	20.00	25.00
13.80	1.79	6.50	14.77	20.79	24.32	25.00	30.00	25.00
15.00	0.00	1.86	5.54	10.67	14.86	17.86	20.00	25.00
16.40	0.00	0.31	1.54	3.93	6.76	10.71	10.00	25.00
18.00	0.00	0.00	0.31	1.12	2.70	3.57	10.00	0.00
20.00	0.00	0.00	0.00	0.19	0.45	1.19	0.00	0.00
22.50	0.00	0.00	0.00	0.19	0.45	1.19	0.00	0.00
25.70	0.00	0.00	0.00	0.19	0.45	1.19	0.00	0.00

GP 76 S. HEMISPHERE SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	5.26	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.50	31.58	8.12	1.89	0.40	0.00	0.00	0.00	0.00	0.00
8.60	21.05	14.21	6.60	2.81	1.14	0.88	0.00	0.00	0.00
9.70	21.05	14.21	6.60	2.81	1.14	0.88	0.00	0.00	0.00
10.90	15.79	34.52	30.19	20.48	12.88	8.77	5.26	0.00	0.00
12.40	5.26	19.80	30.19	30.92	26.52	21.05	15.79	14.29	0.00
13.80	0.00	6.60	16.67	24.50	28.03	28.07	26.32	28.57	0.00
15.00	0.00	1.52	5.97	12.05	18.18	21.05	26.32	28.57	50.00
16.40	0.00	0.51	1.57	4.42	8.33	12.28	15.79	14.29	50.00
18.00	0.00	0.00	0.31	1.20	3.03	5.26	5.26	14.29	0.00
20.00	0.00	0.00	0.00	0.13	0.25	0.58	1.75	0.00	0.00
22.50	0.00	0.00	0.00	0.13	0.25	0.58	1.75	0.00	0.00
25.70	0.00	0.00	0.00	0.13	0.25	0.58	1.75	0.00	0.00

GP 86 S. HEMISPHERE ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M	9-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	5.77	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.50	26.92	8.24	2.36	1.07	0.00	0.00	0.00	0.00	0.00	0.00
8.60	19.23	13.98	7.43	4.01	2.06	1.04	0.00	0.00	0.00	0.00
9.70	19.23	13.98	7.43	4.01	2.06	1.04	0.00	0.00	0.00	0.00
10.90	21.15	33.69	30.74	23.53	17.53	12.50	8.70	10.00	0.00	0.00
12.40	5.77	20.07	28.72	30.48	28.87	25.00	21.74	20.00	25.00	0.00
13.80	1.92	7.17	15.54	21.93	25.77	27.08	26.09	30.00	25.00	33.33
15.00	0.00	1.79	5.74	10.16	14.43	18.75	21.74	20.00	25.00	33.33
16.40	0.00	0.36	1.69	3.74	6.19	8.33	13.04	10.00	25.00	33.33
18.00	0.00	0.00	0.34	1.07	2.06	4.17	4.35	10.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.34	0.69	1.45	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.34	0.69	1.45	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.34	0.69	1.45	0.00	0.00	0.00

GP 86 S. HEMISPHERE WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	8.89	1.01	0.00	0.00	0.00	0.00	0.00	0.00
7.50	31.11	10.47	3.01	1.03	0.00	0.00	0.00	0.00
8.60	18.89	14.70	7.98	4.12	2.38	1.61	0.00	0.00
9.70	18.89	14.70	7.98	4.12	2.38	1.61	0.00	0.00
10.90	17.78	32.09	30.12	23.20	16.67	12.90	10.00	0.00
12.40	4.44	18.24	27.71	29.38	27.38	22.58	20.00	25.00
13.80	0.00	6.76	15.36	21.65	25.00	25.81	30.00	25.00
15.00	0.00	1.69	5.72	10.82	15.48	19.35	20.00	25.00
16.40	0.00	0.34	1.81	4.12	7.14	9.68	10.00	25.00
18.00	0.00	0.00	0.30	1.03	2.38	3.23	10.00	0.00
20.00	0.00	0.00	0.00	0.17	0.40	1.08	0.00	0.00
22.50	0.00	0.00	0.00	0.17	0.40	1.08	0.00	0.00
25.70	0.00	0.00	0.00	0.17	0.40	1.08	0.00	0.00

GP 86 S. HEMISPHERE SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M	9-10 M	10-11
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.50	24.00	4.89	1.12	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.60	20.00	12.23	5.20	2.29	1.07	0.62	0.00	0.00	0.00	0.00	0.00
9.70	20.00	12.23	5.20	2.29	1.07	0.62	0.00	0.00	0.00	0.00	0.00
10.90	24.00	36.96	29.74	20.18	12.86	8.75	4.88	4.55	0.00	16.67	0.00
12.40	8.00	23.37	32.34	32.57	28.57	23.75	19.51	13.64	9.09	16.67	0.00
13.80	0.00	8.15	18.22	25.69	29.29	30.00	29.27	27.27	27.27	16.67	33.33
15.00	0.00	1.63	6.32	11.93	17.14	21.25	24.39	27.27	27.27	16.67	33.33
16.40	0.00	0.54	1.49	3.67	7.14	10.00	14.63	13.64	18.18	16.67	33.33
18.00	0.00	0.00	0.37	0.92	2.14	3.75	4.88	9.09	9.09	16.67	0.00
20.00	0.00	0.00	0.00	0.00	0.24	0.42	0.81	1.52	3.03	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.24	0.42	0.81	1.52	3.03	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.24	0.42	0.81	1.52	3.03	0.00	0.00

GP 89 S. HEMISPHERE ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M	9-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	4.08	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.50	24.49	7.22	2.11	0.53	0.00	0.00	0.00	0.00	0.00	0.00
8.60	19.39	13.50	7.02	3.74	1.94	0.91	0.00	0.00	0.00	0.00
9.70	19.39	13.50	7.02	3.74	1.94	0.91	0.00	0.00	0.00	0.00
10.90	24.49	34.60	30.53	23.53	17.48	12.73	7.41	7.14	0.00	0.00
12.40	6.12	20.91	29.82	31.02	29.13	25.45	22.22	21.43	14.29	25.00
13.80	2.04	7.60	16.14	22.46	26.21	27.27	29.63	28.57	28.57	25.00
15.00	0.00	1.90	5.61	10.70	14.56	18.18	22.22	21.43	28.57	25.00
16.40	0.00	0.38	1.40	3.21	5.83	9.09	11.11	14.29	14.29	25.00
18.00	0.00	0.00	0.35	1.07	1.94	3.64	3.70	7.14	14.29	0.00
20.00	0.00	0.00	0.00	0.00	0.32	0.61	1.23	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.32	0.61	1.23	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.32	0.61	1.23	0.00	0.00	0.00

GP 89 S. HEMISPHERE WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	9.09	0.74	0.00	0.00	0.00	0.00	0.00	0.00
7.50	31.82	9.67	2.77	0.96	0.00	0.00	0.00	0.00
8.60	18.18	14.50	7.69	4.07	2.08	1.35	0.00	0.00
9.70	18.18	14.50	7.69	4.07	2.08	1.35	0.00	0.00
10.90	18.18	32.71	30.15	22.97	16.67	10.81	8.33	0.00
12.40	4.55	18.96	28.31	29.67	27.08	24.32	16.67	25.00
13.80	0.00	6.69	15.69	22.01	26.04	27.03	25.00	25.00
15.00	0.00	1.86	5.85	11.00	15.63	18.92	25.00	25.00
16.40	0.00	0.37	1.54	3.83	7.29	10.81	16.67	25.00
18.00	0.00	0.00	0.31	0.96	2.08	2.70	8.33	0.00
20.00	0.00	0.00	0.00	0.16	0.35	0.90	0.00	0.00
22.50	0.00	0.00	0.00	0.16	0.35	0.90	0.00	0.00
25.70	0.00	0.00	0.00	0.16	0.35	0.90	0.00	0.00

GP 89 S. HEMISPHERE SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M	9-10 M	10-11 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.50	23.81	4.85	1.11	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.60	21.43	12.42	5.17	2.12	0.99	0.61	0.00	0.00	0.00	0.00	0.00
9.70	21.43	12.42	5.17	2.12	0.99	0.61	0.00	0.00	0.00	0.00	0.00
10.90	23.81	36.97	29.52	19.49	12.58	7.32	5.00	5.00	0.00	0.00	0.00
12.40	4.76	23.03	32.47	32.63	27.81	23.17	17.50	15.00	11.11	0.00	0.00
13.80	0.00	7.88	18.45	26.27	29.80	30.49	30.00	25.00	22.22	25.00	33.33
15.00	0.00	1.82	6.27	12.29	17.88	21.9	25.00	25.00	33.33	25.00	33.33
16.40	0.00	0.61	1.48	3.81	7.28	10.98	15.00	15.00	22.22	25.00	33.33
18.00	0.00	0.00	0.37	0.85	1.99	3.66	5.00	10.00	11.11	25.00	0.00
20.00	0.00	0.00	0.00	0.00	0.22	0.41	0.83	1.67	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.22	0.41	0.83	1.67	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.22	0.41	0.83	1.67	0.00	0.00	0.00

GP 91 S. HEMISPHERE ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M	9-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.50	23.08	5.24	1.09	0.45	0.00	0.00	0.00	0.00	0.00	0.00
8.60	21.15	12.57	5.47	2.50	1.10	0.67	0.00	0.00	0.00	0.00
9.70	21.15	12.57	5.47	2.50	1.10	0.67	0.00	0.00	0.00	0.00
10.90	23.08	36.65	29.93	20.45	13.24	9.33	5.41	5.26	0.00	0.00
12.40	7.69	23.04	32.12	32.27	28.68	24.00	18.92	15.79	11.11	20.00
13.80	0.00	7.85	17.88	25.45	29.41	29.33	29.73	26.32	22.22	20.00
15.00	0.00	1.57	6.20	11.82	16.91	21.33	24.32	26.32	33.33	20.00
16.40	0.00	0.52	1.46	3.64	6.62	9.33	13.51	15.79	22.22	20.00
18.00	0.00	0.00	0.36	0.91	2.21	4.00	5.41	5.26	11.11	20.00
20.00	0.00	0.00	0.00	0.00	0.25	0.44	0.90	1.75	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.25	0.44	0.90	1.75	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.25	0.44	0.90	1.75	0.00	0.00

GP 91 S. HEMISPHERE WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M	9-10 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	4.88	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.50	29.27	8.06	2.01	0.48	0.00	0.00	0.00	0.00	0.00	0.00
8.60	19.51	13.71	7.02	3.59	1.83	0.96	0.00	0.00	0.00	0.00
9.70	19.51	13.71	7.02	3.59	1.83	0.96	0.00	0.00	0.00	0.00
10.90	21.95	33.87	30.43	22.49	16.51	11.54	9.09	11.11	0.00	0.00
12.40	4.88	20.56	29.43	30.62	28.44	25.00	22.73	22.22	25.00	0.00
13.80	0.00	7.26	16.05	22.97	26.61	26.92	27.27	22.22	25.00	50.00
15.00	0.00	2.02	6.02	11.00	15.60	19.23	22.73	22.22	25.00	50.00
16.40	0.00	0.40	1.67	3.83	6.42	9.62	13.64	11.11	25.00	0.00
18.00	0.00	0.00	0.33	0.96	1.83	3.85	4.55	11.11	0.00	0.00
20.00	0.00	0.00	0.00	0.16	0.31	0.64	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.16	0.31	0.64	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.16	0.31	0.64	0.00	0.00	0.00	0.00

GP 91 S. HEMISPHERE SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M	9-10 M	10-11 M
3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.50	20.00	3.05	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.60	23.33	10.31	3.63	1.32	0.60	0.50	0.00	0.00	0.00	0.00	0.00
9.70	23.33	10.31	3.63	1.32	0.60	0.50	0.00	0.00	0.00	0.00	0.00
10.90	26.67	38.93	28.21	17.18	10.24	6.00	3.51	3.13	0.00	0.00	0.00
12.40	6.67	26.72	35.90	33.92	27.71	22.00	17.54	12.50	11.11	19.00	0.00
13.80	0.00	9.16	20.51	28.63	31.93	32.00	29.82	28.13	22.22	20.00	20.00
15.00	0.00	1.53	6.41	13.22	19.28	24.00	28.07	28.13	27.78	30.00	40.00
16.40	0.00	0.00	1.28	3.52	7.23	11.00	14.04	18.75	22.22	20.00	20.00
18.00	0.00	0.00	0.00	0.88	1.81	3.00	5.26	6.25	11.11	10.00	20.00
20.00	0.00	0.00	0.00	0.00	0.20	0.33	0.58	1.04	1.85	3.33	0.00
22.50	0.00	0.00	0.00	0.00	0.20	0.33	0.58	1.04	1.85	3.33	0.00
25.70	0.00	0.00	0.00	0.00	0.20	0.33	0.58	1.04	1.85	3.33	0.00

COMBINED S. HEMISPHERE ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-9 M 9-10 M											
3.20	1.16	0.16	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	1.16	0.16	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	14.65	4.39	2.00	1.24	0.95	0.44	1.14	0.00	0.00	0.00	0.00
7.50	32.05	16.30	8.65	5.78	3.78	3.08	2.27	3.33	0.00	0.00	0.00
8.60	15.86	14.60	9.84	6.75	4.99	3.50	3.84	3.33	6.25	0.00	0.00
9.70	15.86	14.60	9.84	6.75	4.99	3.50	3.84	3.33	6.25	0.00	0.00
10.90	14.91	27.74	27.87	23.10	19.70	17.30	10.12	15.40	12.50	0.00	0.00
12.40	3.87	15.11	23.28	25.44	24.37	21.87	21.05	25.37	12.60	15.00	0.00
13.80	0.49	5.32	12.28	18.03	21.66	21.72	29.88	18.32	18.95	26.11	0.00
15.00	0.00	1.33	4.52	8.55	12.36	17.03	17.46	15.46	21.73	26.11	0.00
16.40	0.00	0.32	1.26	3.07	5.57	8.54	6.49	10.85	15.38	26.11	0.00
18.00	0.00	0.00	0.30	0.94	2.08	2.22	2.58	3.73	6.35	6.67	0.00
20.00	0.00	0.00	0.02	0.9	0.18	0.26	0.45	0.29	0.00	0.00	0.00
22.50	0.00	0.00	0.02	0.09	0.18	0.26	0.45	0.29	0.00	0.00	0.00
25.70	0.00	0.00	0.02	0.09	0.18	0.26	0.45	0.29	0.00	0.00	0.00

COMBINED S. HEMISPHERE WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-9 M 9-10 M											
3.20	2.01	0.42	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.01	0.42	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	17.87	6.40	2.93	1.54	1.11	0.00	0.00	0.00	0.00	0.00	0.00
7.50	33.29	18.54	10.28	6.45	3.72	0.00	0.00	0.00	0.00	0.00	0.00
8.60	14.39	14.62	10.54	7.54	5.78	0.82	0.00	0.00	0.00	0.00	0.00
9.70	14.39	14.62	10.54	7.54	5.78	0.82	0.00	0.00	0.00	0.00	0.00
10.90	12.77	25.53	27.31	23.80	20.64	14.42	9.36	2.78	0.00	0.00	0.00
12.40	3.04	13.34	21.50	24.20	24.51	23.13	19.85	24.31	25.00	0.00	0.00
13.80	0.23	4.65	11.05	16.59	19.39	25.68	28.07	24.31	25.00	50.00	0.00
15.00	0.00	1.23	4.11	7.90	11.21	20.05	21.93	24.31	25.00	50.00	0.00
16.40	0.00	0.24	1.17	2.95	5.59	10.12	12.58	21.53	25.00	0.00	0.00
18.00	0.00	0.00	0.28	0.97	1.61	3.34	8.22	2.78	0.00	0.00	0.00
20.00	0.00	0.00	0.01	0.11	0.22	0.54	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.01	0.11	0.22	0.54	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.01	0.11	0.22	0.54	0.00	0.00	0.00	0.00	0.00

COMBINED S. HEMISPHERE SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M 6-7 M 7-8 M 8-9 M 9-10 M											
3.20	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	8.28	1.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.50	31.32	10.16	3.11	1.21	0.32	0.15	0.00	0.00	0.00	0.00	0.00
8.60	18.61	14.47	7.80	4.15	2.28	1.06	0.33	0.52	0.00	0.00	0.00
9.70	18.61	14.47	7.80	4.15	2.28	1.06	0.33	0.52	0.00	0.00	0.00
10.90	17.72	32.96	30.41	22.66	16.37	13.00	6.71	8.57	3.33	10.42	0.00
12.40	4.82	18.72	28.33	30.00	27.16	23.20	19.44	17.78	12.93	12.92	0.00
13.80	0.22	6.40	15.20	22.27	25.87	26.62	29.02	25.66	21.01	21.67	0.00
15.00	0.00	1.49	5.40	10.63	15.68	19.75	25.41	23.58	31.01	24.17	0.00
16.40	0.00	0.34	1.43	3.69	6.99	10.56	12.94	14.66	22.52	15.42	0.00
18.00	0.00	0.00	0.33	1.00	2.37	3.67	4.49	6.61	6.26	12.92	0.00
20.00	0.00	0.00	0.01	0.09	0.24	0.31	0.44	0.71	0.98	0.8	0.00
22.50	0.00	0.00	0.01	0.09	0.24	0.31	0.44	0.71	0.98	0.83	0.00
25.70	0.00	0.00	0.01	0.09	0.24	0.31	0.44	0.71	0.98	0.83	0.00

S. HEMISPHERE				GP 50			
SIG HT	ANNUAL			WINTER		SUMMER	
RANGE	SIG HT	To	PRANGE	SIG HT	To	PRANGE	SIG HT
0-1 M	28.7	6.5	3.5-10	33.3	6.5	3.5-10	9.8
1-2 M	33.3	7.5	5.5-11	44.4	7.5	5-11	22.8
2-3 M	19.3	7.5	6.5-1.5	17.1	7.5	5.5-11	23.6
3-4 M	9.6	7.5	6.5-12.5	4.2	7.5	6.5-12.5	18.6
4-5 M	4.7	7.5	6.5-12.5	0.8	7.5	6.5-12.5	12.1
5-6 M	2.3	11	6.5-12.5	0.2	9	8.5-10	6.8
6-7 M	1.1	11	6.5-12.5				3.4
7-8 M	0.5	11	7-12.5				1.6
8-9 M	0.2	11	9-11				0.7
9-10 M	0.1	11	9-11				0.3
10-11 M	0.1	11	9-11				0.2
11-12 M	0.1	11	9-11				0.1
12-13 M							
13-14 M							
14-15 M							
15-16 M							
> 16 M							

S. HEMISPHERE				GP 54			
SIG HT	ANNUAL			WINTER		SUMMER	
RANGE	SIG HT	To	PRANGE	SIG HT	To	PRANGE	SIG HT
0-1 M	5.6	7.5	6.5-11	4.3	7.5	6.5-11	5.3
1-2 M	41	11	7.5-14	35.3	11	7.5-14	41.6
2-3 M	36.2	11	8-15	37.4	11	8-15	36.6
3-4 M	13.3	12.5	8.5-16.5	16.8	12.5	8.5-16.5	13
4-5 M	3.2	13	9.5-16.5	4.9	13	10-18	2.9
5-6 M	0.6	13.5	11-16.5	1.1	13.5	11-18	0.5
6-7 M	0.1	13.5	11-16.5	0.2	13.5	11-18	0.1
7-8 M							
8-9 M							
9-10 M							
10-11 M							
11-12 M							
12-13 M							
13-14 M							
14-15 M							
15-16 M							
> 16 M							

APPENDIX D

COASTAL AREA REGION

GP 27 EASTERN MEDITERRANEAN ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	8.05	1.87	0.87	0.77	0.00	0.00	0.00	0.00
4.80	8.05	1.87	0.87	0.77	0.00	0.00	0.00	0.00
6.30	39.37	25.13	15.70	10.77	8.00	11.11	0.00	0.00
7.50	30.75	38.24	35.47	30.77	28.00	22.22	20.00	0.00
8.60	5.60	11.50	14.53	16.15	16.00	16.67	20.00	25.00
9.70	5.60	11.50	14.53	16.15	16.00	16.67	20.00	25.00
10.90	2.30	7.75	12.79	16.92	20.00	22.22	20.00	50.00
12.40	0.29	1.87	4.07	6.15	8.00	11.11	20.00	0.00
13.80	0.00	0.27	1.16	1.54	4.00	0.00	0.00	0.00
15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 27 EASTERN MEDITERRANEAN WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M
3.20	3.23	0.42	0.23	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.23	0.42	0.23	0.00	0.00	0.00	0.00	0.00	0.00
6.30	31.03	12.85	5.99	3.77	2.00	0.00	0.00	0.00	0.00
7.50	37.93	35.20	26.27	19.81	16.00	13.04	10.00	16.67	0.00
8.60	9.27	15.92	17.51	16.98	16.00	13.04	15.00	8.33	16.67
9.70	9.27	15.92	17.51	16.98	16.00	13.04	15.00	8.33	16.67
10.90	5.17	14.25	21.66	26.42	28.00	30.43	30.00	33.33	33.33
12.40	0.86	3.91	7.83	11.32	14.00	17.39	20.00	16.67	33.33
13.80	0.00	0.84	2.30	3.77	6.00	8.70	10.00	16.67	0.00
15.00	0.00	0.28	0.46	0.94	2.00	4.35	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 27 EASTERN MEDITERRANEAN SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	11.11	3.10	1.35	0.00	0.00
4.80	11.11	3.10	1.35	0.00	0.00
6.30	40.74	29.66	18.92	12.50	14.29
7.50	26.46	36.78	35.81	31.25	28.57
8.60	4.23	9.77	13.51	15.63	14.29
9.70	4.23	9.77	13.51	15.63	14.29
10.90	1.85	6.21	11.49	15.63	14.29
12.40	0.26	1.38	3.38	6.25	14.29
13.80	0.00	0.23	0.68	3.13	0.00
15.00	0.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 26 WESTERN MEDITERRANEAN ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M
3.20	8.70	2.11	0.84	0.6	0.00	0.00	0.00	0.00
4.80	8.70	2.11	0.84	0.68	0.00	0.00	0.00	0.00
6.30	40.58	26.97	17.98	12.33	10.71	9.09	0.00	0.00
7.50	29.57	38.76	37.08	32.88	28.57	27.27	20.00	33.33
8.60	5.07	10.81	14.04	15.75	16.07	18.18	20.00	16.67
9.70	5.07	10.81	14.04	15.75	16.07	18.18	20.00	16.67
10.90	2.03	6.74	11.24	15.07	17.86	18.18	20.00	33.33
12.40	0.29	1.40	3.37	5.48	7.14	9.09	20.00	0.00
13.80	0.00	0.28	0.56	1.37	3.57	0.00	0.00	0.00
15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 26 WESTERN MEDITERRANEAN WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-9 M
3.20	4.29	0.58	0.23	0.00	0.00	0.00	0.00	0.00	0.00
4.80	4.29	0.58	0.23	0.00	0.00	0.00	0.00	0.00	0.00
6.30	35.10	16.08	8.68	5.45	4.00	4.55	0.00	0.00	0.00
7.50	36.33	37.72	30.14	24.55	20.00	18.18	10.00	25.00	0.00
8.60	7.76	14.91	17.12	17.27	17.00	15.91	15.00	12.50	16.67
9.70	7.76	14.91	17.12	17.27	17.00	15.91	15.00	12.50	16.67
10.90	3.67	11.70	18.72	22.73	26.00	27.27	30.00	25.00	33.33
12.40	0.82	2.92	5.94	9.09	12.00	13.64	20.00	25.00	33.33
13.80	0.00	0.58	1.37	2.73	4.00	4.55	10.00	0.00	0.00
15.00	0.00	0.00	0.46	0.91	0.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 26 WESTERN MEDITERRANEAN SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M
3.20	14.09	4.61	2.17	1.43	0.00	0.00
4.80	14.09	4.61	2.17	1.43	0.00	0.00
6.30	41.36	34.47	25.36	20.00	14.29	0.00
7.50	22.73	35.00	36.96	37.14	42.86	50.00
8.60	3.18	7.89	11.23	12.86	14.29	25.00
9.70	3.18	7.89	11.23	12.86	14.29	25.00
10.90	1.14	4.47	7.97	11.43	14.29	0.00
12.40	0.23	0.79	2.17	2.86	0.00	0.00
13.80	0.00	0.26	0.72	0.00	0.00	0.00
15.00	0.00	0.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00

GP 38 PERSIAN GULF ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M
3.20	23.84	11.20	7.28	5.36	6.25	0.00
4.80	23.84	11.20	7.28	5.36	6.25	0.00
6.30	36.79	42.53	38.83	35.71	25.00	50.00
7.50	12.68	25.65	31.07	35.71	37.50	50.00
8.60	1.25	3.73	5.83	7.14	6.25	0.00
9.70	1.25	3.73	5.83	7.14	6.25	0.00
10.90	0.36	1.62	2.91	3.57	12.50	0.00
12.40	0.00	0.32	0.97	0.00	0.00	0.00
13.80	0.00	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00

GP 38 PERSIAN GULF WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M
3.20	18.31	7.14	3.96	2.33	0.00	0.00
4.80	18.31	7.14	3.96	2.33	0.00	0.00
6.30	40.90	39.65	33.09	27.91	27.27	33.33
7.50	17.77	31.49	35.97	37.21	36.36	33.33
8.60	2.03	5.69	8.63	10.47	13.64	16.67
9.70	2.03	5.69	8.63	10.47	13.64	16.67
10.90	0.64	2.62	5.04	6.98	9.09	0.00
12.40	0.00	0.58	0.72	2.33	0.00	0.00
13.80	0.00	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00

GP 38 PERSIAN GULF SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	27.32	14.13	9.33	5.56	0.00
4.80	27.32	14.13	9.33	5.56	0.00
6.30	33.44	42.75	41.33	38.89	33.33
7.50	10.05	22.10	28.00	33.33	33.33
8.60	0.86	2.90	4.67	5.56	16.67
9.70	0.86	2.90	4.67	5.56	16.67
10.90	0.16	1.09	2.67	5.56	0.00
12.40	0.00	0.00	0.00	0.00	0.00
13.80	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 14 NORTH SEA ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	11.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	7.56	15.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	15.11	27.61	8.45	0.00	0.00	0.00	0.00	0.00	0.00
7.50	13.22	14.32	29.58	5.44	2.28	0.00	0.00	0.00	0.00
8.60	14.42	11.71	21.51	33.94	12.45	0.00	0.00	0.00	0.00
9.70	13.22	7.16	14.79	31.11	34.24	4.43	0.00	0.00	0.00
10.90	8.82	7.16	4.93	7.78	22.82	22.14	4.41	2.71	0.00
12.40	7.56	6.14	4.23	3.33	9.78	37.96	37.83	27.83	6.44
13.80	4.07	3.30	4.55	3.59	5.27	10.22	20.37	24.98	13.87
15.00	4.07	3.30	4.55	7.18	4.21	10.22	16.30	19.98	34.68
16.40	0.35	2.86	3.94	3.11	3.65	7.09	10.59	12.99	18.03
18.00	0.15	0.72	1.64	2.07	2.28	4.43	5.88	7.22	15.03
20.00	0.12	0.39	1.08	1.27	1.87	2.42	2.41	2.95	8.20
22.50	0.00	0.00	0.74	1.17	1.14	1.11	2.21	1.35	3.76
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 14 NORTH SEA WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M	7-8 M	8-10 M
3.20	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.80	8.07	11.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.30	13.72	19.25	9.12	0.96	0.00	0.00	0.00	0.00	0.00
7.50	12.24	9.75	26.38	5.57	0.00	0.00	0.00	0.00	0.00
8.60	10.27	10.63	20.19	28.58	4.47	0.00	0.00	0.00	0.00
9.70	12.24	9.75	19.90	31.77	30.29	3.11	0.00	0.00	0.00
10.90	12.24	7.20	4.63	7.25	32.75	31.13	3.28	0.00	0.00
12.40	8.07	6.18	3.97	4.78	9.12	32.02	36.51	7.24	3.93
13.80	11.30	7.82	4.27	5.14	7.56	14.37	21.17	23.41	8.46
15.00	8.69	7.82	5.55	5.14	5.29	7.18	18.15	39.01	25.37
16.40	0.75	6.78	3.70	4.46	3.93	4.98	13.11	20.29	36.64
18.00	0.00	2.83	1.54	3.72	2.73	3.11	4.37	5.63	18.32
20.00	0.00	0.00	0.50	1.52	2.23	2.55	1.79	2.31	5.00
22.50	0.00	0.00	0.23	1.11	1.64	1.56	1.64	2.11	2.29
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 14 NORTH SEA SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	13.89	0.00	0.00	0.00	0.00
4.80	6.95	17.08	0.00	0.00	0.00
6.30	19.22	36.15	6.49	0.00	0.00
7.50	18.91	19.93	40.79	7.74	0.00
8.60	14.74	9.78	27.33	38.84	8.71
9.70	13.51	6.64	9.91	30.96	39.94
10.90	5.40	3.32	4.08	7.74	19.97
12.40	2.32	1.99	3.00	5.31	13.69
13.80	2.49	1.84	2.69	4.29	11.06
15.00	1.50	1.53	2.69	2.86	3.69
16.40	1.08	1.06	1.86	1.24	1.60
18.00	0.00	0.66	1.17	1.03	1.33
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 49 CUBA/HAITI ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M

3.20	2.31	0.00	0.00	0.00	0.00
4.80	2.89	1.91	0.00	0.00	0.00
6.30	20.22	22.95	4.14	0.00	0.00
7.50	16.85	22.32	28.98	8.00	1.06
8.60	11.03	17.04	26.34	17.46	1.94
9.70	20.22	15.62	14.49	32.01	10.65
10.90	10.11	8.93	9.66	16.00	35.48
12.40	5.78	3.83	4.14	6.86	15.21
13.80	3.11	2.06	4.46	5.91	13.10
15.00	3.11	2.06	2.23	4.43	9.83
16.40	2.70	1.79	1.93	3.84	8.52
18.00	1.12	0.89	1.61	2.13	2.37
20.00	0.55	0.61	1.05	1.75	0.97
22.50	0.00	0.00	0.97	1.60	0.89
25.70	0.00	0.00	0.00	0.00	0.00

GP 49 CUBA/HAITI WINTER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M

3.20	1.85	0.00	0.00	0.00	0.00
4.80	1.85	1.04	0.00	0.00	0.00
6.30	17.35	16.00	2.90	4.07	0.00
7.50	17.23	24.25	27.04	6.65	1.41
8.60	15.51	15.08	25.81	17.61	3.07
9.70	18.52	12.12	12.51	35.14	19.67
10.90	14.22	11.40	9.13	12.35	28.10
12.40	4.80	6.24	6.66	5.70	12.04
13.80	2.78	4.48	6.24	5.26	10.38
15.00	2.39	4.48	3.12	4.38	10.38
16.40	2.07	3.30	2.70	3.80	6.74
18.00	1.44	1.62	1.58	2.53	3.75
20.00	0.00	0.00	1.29	1.55	3.07
22.50	0.00	0.00	1.01	0.95	1.41
25.70	0.00	0.00	0.00	0.00	0.00

GP 49 CUBA/HAITI SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M

3.20	2.16	0.00	0.00	0.00
4.80	3.09	1.88	0.00	0.00
6.30	28.76	24.97	6.49	0.00
7.50	19.12	25.25	30.28	11.44
8.60	6.69	15.98	22.30	31.20
9.70	22.73	19.70	9.84	17.16
10.90	8.30	6.23	9.84	17.16
12.40	3.09	1.88	8.44	9.81
13.80	2.33	1.55	6.99	5.28
15.00	2.00	1.09	3.49	5.28
16.40	1.73	0.81	1.82	2.29
18.00	0.00	0.67	0.50	0.38
20.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00

GP 52 CUBA/HAITI ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M

3.20	32.98	0.00	0.00	0.00	0.00
4.80	13.19	35.19	0.00	0.00	0.00
6.30	26.39	42.23	19.13	0.00	0.00
7.50	10.26	12.32	44.64	6.79	7.24
8.60	5.60	4.48	24.35	37.02	15.79
9.70	5.13	2.05	5.58	33.93	36.18
10.90	2.57	1.23	3.35	10.18	21.71
12.40	0.88	0.70	1.91	5.82	12.41
13.80	0.47	0.76	1.03	3.13	6.68
15.00	0.47	0.38	0.00	3.13	0.00
16.40	2.05	0.66	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 52 CUBA/HAITI WINTER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M

3.20	21.23	0.00	0.00	0.00	0.00
4.80	9.47	26.69	0.00	0.00	0.00
6.30	30.70	43.51	16.66	11.66	0.00
7.50	11.04	15.57	45.36	25.26	0.00
8.60	6.51	6.80	27.63	42.40	8.12
9.70	8.95	3.11	5.89	9.72	14.89
10.90	2.98	1.56	2.36	5.83	37.23
12.40	1.28	1.07	1.01	3.33	19.14
13.80	0.83	0.86	0.54	1.79	13.74
15.00	0.55	0.57	0.54	0.00	6.87
16.40	6.45	0.25	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 52 CUBA/HAITI SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M

3.20	37.76	0.00	0.00
4.80	14.88	46.70	0.00
6.30	24.18	36.19	18.09
7.50	8.68	9.08	29.55
8.60	4.73	4.95	27.63
9.70	4.34	1.36	12.66
10.90	2.17	0.91	8.44
12.40	1.86	0.39	3.62
13.80	1.00	0.42	0.00
15.00	0.40	0.00	0.00
16.40	0.00	0.00	0.00
18.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00
25.70	0.00	0.00	0.00

GP 46 GULF OF MEXICO ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

	PERIOD 0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	29.68	0.00	0.00	0.00	0.00
4.80	10.79	28.52	0.00	0.00	0.00
6.30	29.68	32.59	11.32	0.00	0.00
7.50	7.87	14.26	26.41	8.17	8.12
8.60	8.58	15.56	43.22	44.58	44.30
9.70	9.44	4.75	7.92	20.43	24.37
10.90	1.57	1.43	5.28	12.26	16.24
12.40	0.54	0.81	3.40	7.01	6.96
13.80	0.29	0.88	2.44	3.77	0.00
15.00	0.29	0.44	0.00	3.77	0.00
16.40	1.26	0.76	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 46 GULF OF MEXICO WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

	PERIOD 0-1 M	1-2 M	2-3 M	3-4 M	4-5 M
3.20	25.58	0.00	0.00	0.00	0.00
4.80	10.96	25.97	0.00	0.00	0.00
6.30	20.09	36.30	10.13	3.17	0.00
7.50	11.72	15.31	39.07	11.10	15.02
8.60	12.32	13.15	42.62	52.45	40.98
9.70	11.30	6.52	6.36	25.89	22.54
10.90	1.28	1.63	1.82	7.40	15.02
12.40	0.91	1.12	0.00	0.00	6.44
13.80	0.79	0.00	0.00	0.00	0.00
15.00	0.79	0.00	0.00	0.00	0.00
16.40	4.26	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00

GP 46 GULF OF MEXICO SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

	PERIOD 0-1 M	1-2 M	2-3 M
3.20	19.93	0.00	0.00
4.80	2.79	23.26	0.00
6.30	34.29	30.23	6.05
7.50	10.75	16.28	14.12
8.60	8.18	11.84	38.50
9.70	18.25	8.14	21.17
10.90	2.50	5.43	14.12
12.40	2.14	2.33	6.05
13.80	1.15	2.50	0.00
15.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00
18.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00
25.70	0.00	0.00	0.00

GP 50 GULF OF MEXICO ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	4-5 M
3.20	9.72	0.00	0.00	0.00	0.00	0.00
4.80	2.43	5.19	0.00	0.00	0.00	0.00
6.30	51.03	54.51	5.65	0.00	0.00	0.00
7.50	17.01	21.20	52.76	3.69	3.10	0.00
8.60	6.19	9.91	28.78	40.29	10.15	0.00
9.70	5.67	6.06	6.60	36.93	31.01	16.21
10.90	1.42	1.51	3.30	9.23	31.01	40.52
12.40	2.43	0.78	1.70	4.75	13.29	20.84
13.30	1.31	0.56	1.22	3.41	8.59	14.96
15.00	0.52	0.28	0.00	1.70	2.86	7.48
16.40	2.27	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00

GP 50 GULF OF MEXICO WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M
3.20	6.50	0.00	0.00	0.00	0.00	0.00
4.80	3.25	3.61	0.00	0.00	0.00	0.00
6.30	42.27	48.17	5.76	0.00	0.00	0.00
7.50	21.62	25.50	53.24	2.75	0.00	0.00
8.60	12.41	14.31	29.89	49.41	7.16	0.00
9.70	3.79	4.95	6.72	41.18	42.68	0.00
10.90	3.79	1.49	2.58	5.49	32.83	20.04
12.40	3.25	1.06	1.33	1.18	11.26	42.95
13.80	1.75	0.69	0.48	0.00	6.06	27.75
15.00	1.05	0.23	0.00	0.00	0.00	9.25
16.40	0.30	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00

GP 50 GULF OF MEXICO SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M
3.20	9.27	0.00	0.00	0.00
4.80	2.97	10.99	0.00	0.00
6.30	55.96	56.07	10.71	0.00
7.50	16.93	17.10	53.53	15.02
8.60	6.68	7.93	25.31	40.98
9.70	5.51	4.28	5.35	22.54
10.90	1.43	2.14	3.57	15.02
12.40	0.87	1.10	1.53	6.44
13.80	0.38	0.39	0.00	0.00
15.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00

GP 25 SEA OF JAPAN ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M

3.20	29.47	0.00	0.00	0.00	0.00	0.00
4.80	7.37	24.83	0.00	0.00	0.00	0.00
6.30	14.74	21.28	6.70	0.00	0.00	0.00
7.50	14.33	12.42	23.46	3.06	0.00	0.00
8.60	25.01	31.60	51.19	50.08	6.84	0.00
9.70	2.87	4.14	7.82	15.30	31.36	15.22
10.90	1.43	2.07	3.91	15.30	31.36	38.05
12.40	0.98	1.42	2.68	6.56	13.44	19.57
13.80	0.79	1.15	2.17	5.65	8.69	14.05
15.00	0.53	0.76	1.44	2.82	5.79	7.02
16.40	2.29	0.33	0.63	1.22	2.51	6.09
18.00	0.19	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00

GP 25 SEA OF JAPAN WINTER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M 4-5 M 5-6 M

3.20	10.97	0.00	0.00	0.00	0.00	0.00
4.80	7.31	12.51	0.00	0.00	0.00	0.00
6.30	9.87	13.68	4.43	0.00	0.00	0.00
7.50	14.08	13.58	19.89	1.57	0.00	0.00
8.60	46.53	52.97	63.78	57.20	1.91	0.00
9.70	4.27	1.70	6.76	23.48	17.49	13.42
10.90	2.13	1.70	1.99	10.17	34.98	31.32
12.40	1.46	1.16	1.36	3.35	25.49	19.18
13.80	1.18	0.94	0.73	2.17	8.07	16.52
15.00	1.18	0.94	0.73	1.44	6.46	12.39
16.40	1.02	0.81	0.32	0.63	5.60	7.16
18.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00

GP 25 SEA OF JAPAN SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE
 PERIOD 0-1 M 1-2 M 2-3 M 3-4 M

3.20	40.23	0.00	0.00	0.00
4.80	8.60	30.18	0.00	0.00
6.30	18.60	32.11	12.59	0.00
7.50	12.75	12.74	38.18	15.02
8.60	9.77	13.90	32.04	40.98
9.70	4.61	7.49	8.81	22.54
10.90	3.53	2.25	5.87	15.02
12.40	1.16	0.64	2.52	6.44
13.80	0.75	0.69	0.00	0.00
15.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00

GP 60 SOUTH CHINA SEA ANNUAL PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M
3.20	15.23	0.00	0.00	0.00	0.00	0.00	0.00
4.80	3.05	4.26	0.00	0.00	0.00	0.00	0.00
6.30	27.41	29.85	1.89	0.00	0.00	0.00	0.00
7.50	21.32	24.88	22.07	2.06	2.55	0.00	0.00
8.60	7.75	16.28	32.11	22.51	6.96	0.00	0.00
9.70	10.66	14.93	29.43	30.96	12.76	5.08	0.00
10.90	3.55	4.98	7.36	20.64	25.52	12.70	4.45
12.40	3.05	2.13	3.15	8.84	32.82	21.77	11.43
13.80	3.28	1.38	2.04	9.52	11.78	23.45	16.41
15.00	3.28	0.92	1.36	3.81	4.71	23.45	41.04
16.40	1.42	0.40	0.59	1.65	2.04	10.16	17.78
18.00	0.00	0.00	0.00	0.00	0.85	3.39	8.89
20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 60 SOUTH CHINA SEA WINTER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M	4-5 M	5-6 M	6-7 M
3.20	4.91	0.00	0.00	0.00	0.00	0.00	0.00
4.80	2.94	0.97	0.00	0.00	0.00	0.00	0.00
6.30	22.57	24.35	2.47	0.00	0.00	3.00	0.00
7.50	11.45	24.43	17.72	2.74	0.00	0.00	0.00
8.60	21.23	14.25	23.83	10.18	1.38	0.00	0.00
9.70	14.88	26.70	41.21	38.42	17.08	2.88	0.00
10.90	8.01	2.84	11.13	31.28	25.30	10.08	6.36
12.40	4.91	1.95	1.41	9.41	37.95	28.39	23.62
13.80	3.17	1.57	1.14	5.07	9.93	22.60	33.27
15.00	3.17	1.57	0.76	2.03	5.84	22.60	25.44
16.40	2.75	1.36	0.33	0.88	2.53	11.52	8.48
18.00	0.00	0.00	0.00	0.00	0.00	1.92	2.83
20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GP 60 SOUTH CHINA SEA SUMMER PERCENTAGE FREQUENCY OF OCCURRENCE

PERIOD	0-1 M	1-2 M	2-3 M	3-4 M
3.20	28.18	0.00	0.00	0.00
4.80	7.90	12.78	0.00	0.00
6.30	35.02	59.27	5.31	0.00
7.50	17.51	16.72	59.24	5.77
8.60	4.36	6.41	26.04	40.90
9.70	2.15	2.26	4.42	28.84
10.90	2.15	1.36	2.65	14.42
12.40	1.32	0.77	1.52	7.42
13.80	1.42	0.42	0.82	2.66
15.00	0.00	0.00	0.00	0.00
16.40	0.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	0.00
22.50	0.00	0.00	0.00	0.00
25.70	0.00	0.00	0.00	0.00

WESTERN MEDITERRANEAN

GP 26

EASTERN MEDITERRANEAN

GP 27

PERSIAN GULF ANNUAL

GP 38

WINTER

SUMMER

NORTH SEA GP 14 (55.9 N, 4.4 E)

GP 14 (55.9 N, 4.4 E)

WINTER

SUMMER

CUBA/HF TI GP 49 (24.2 N, 72.8 W)

CUBA/HAITI GP 52 (19.9 N, 80.8 W)

GULF OF MEXICO

GP 46 (28.8 N, 86.7 W)

SUMMER

GULF OF MEXICO

GP 50 (24.0 N, 89.4 W)

SUMMER

SEA OF JAPAN				GP 25 (40.2 N, 131° 2 E)				
SIG HT	ANNUAL			WINTER		SUMMER		
RANGE	SIG	HT	To	PRANGE	SIG	HT	To	PRANGE
0-1	M	58.16	3.5	3-10	26.94	8.5	3-12.5	84.17
1-2	M	24.12	8.5	5-10	31.22	8.5	5-10	12.4
2-3	M	11.12	8.5	6.5-12.5	23	8.5	6.5-10	2.63
3-4	M	4.16	8.5	7.5-14	11.02	8.5	8.5-13	0.59
4-5	M	1.51	10	8.5-15	5.05	11	9.5-16.5	0.22
5-6	M	0.57	11	9.5-16.5	1.89	11	9.5-16.5	
6-7	M	0.36	11	9.5-16.5	0.88	11	9.5-16.5	
7-8	M							
8-9	M							
9-10	M							
10-11	M							
11-12	M							
12-13	M							
13-14	M							
14-15	M							
15-16	M							
> 16	M							